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How to Use This Catalog

Use the top catalog menu bar, left navigation menu, or the search catalog option to find information in this catalog. Users may print or save a PDF of sections of the catalog or the catalog in its entirety using the Print Options feature at the bottom of the left navigation menu.

This catalog is designed to assist all types of students - those considering college for the first time, those thinking of transferring from a community college or four-year institution, and those already attending Colorado Mesa University - in choosing the program of study that best fits their aspirations and goals. It includes information about admissions guidelines, financial aid, and academic requirements to allow students to make educated decisions about their futures. This catalog also describes aspects of student life at CMU, opportunities for personal growth outside the classroom, and procedures and policies pertinent to a student’s success at CMU.

For those thinking about applying to Colorado Mesa University, the following steps may be helpful:

1. Review the Areas of Study (p. 130) offered at Colorado Mesa University, and select disciplines that fall within an area of interest. From here, programs offered within each discipline can be reviewed.
2. See the Programs A-Z (p. 743) section or link to a program listed in the chosen discipline(s) in Areas of Study (p. 130) for details on each specific program of interest. Program pages provide detailed program requirements, suggested plans of study, and contact information.
3. Look up course descriptions (p. 751) for some of the courses listed in the program requirements. Courses that fulfill the CMU essential degree requirements are provided under Requirements for Baccalaureate Degrees (p. 97).
4. Finally, once programs of interest have been selected, see Undergraduate Admission Information (p. 30) or Graduate Information and Programs (p. 105) to learn more about the application process and requirements; Tuition, Fees, Residence Life and Student Accounts (p. 59) and Scholarships and Financial Aid (p. 51) to learn more about tuition, expenses, financial aid, and housing; and Academic and Student Services, Offices and Activities (p. 71) to learn about student academic support, activities and services at Colorado Mesa University.

For those who are already students at Colorado Mesa University, this catalog is helpful for the following:

- Choose a major (follow Steps 1, 2, and 3 above.) Once you’ve declared a major contact the appropriate department to meet with your faculty advisor. If undeclared, contact the IRIS Advising Center (p. 71) to meet with an academic advisor and discuss options.
- Keep track of your academic progress (review the requirements for the selected program of study (p. 743) and track progress in DegreeWorks).
- Review courses, both required and elective, in Course Descriptions (p. 751).
- Review degree requirements and essential learning courses under the requirements applicable to the selected Undergraduate (p. 93) or Graduate (p. 105) degree type.

To learn more about career opportunities and programs of study available at Colorado Mesa University, you might also wish to review information provided on our Academics (https://www.coloradomesa.edu/academics) page and in the Two-Year Course Planning Calendar/Matrix (https://www.coloradomesa.edu/academic-affairs/documents/combined-final-matrix.pdf).

Accreditation Statement

Colorado Mesa University (CMU) is accredited by the Higher Learning Commission (HLC)

Higher Learning Commission
230 South LaSalle Street, Suite 7-500, Chicago, Illinois 60604-1411
Phone: 800.621.7440 / 312.263.0456 | Fax: 312.263.7462
info@hlcommission.org

Verification of CMU’s status can be found on the HLC web site (https://www.hlcommission.org/Directory-of-HLC-Institutions.html). Additional details on CMU’s HLC and program-specific state and national agency accreditation is provided in the Overview of Colorado Mesa University (p. 25).

HEOA (Higher Education Opportunity Act) and Gainful Employment Institution Disclosure Information

In compliance with the Higher Education Opportunity Act of 2008, information about Colorado Mesa University is available on the University’s website (https://www.coloradomesa.edu/institutional-research/heoa-disclosures.html). Information disclosed includes program information, physical plant facilities, faculty information, financial aid and textbook information, as well as student-right-to-know information.

In compliance with revisions to the Student Assistance General Provisions regulations to improve disclosure of relevant information and to establish minimal measures for determining whether certain postsecondary educational programs lead to gainful employment in recognized occupations- information about gainful employment is also available on the University’s website (https://www.coloradomesa.edu/gainful-employment).

Contact Information

1100 North Avenue
Grand Junction
Colorado 81501-3122
970.248.1020 • 800.982.6372
coloradomesa.edu

More information on departments, programs, and academic resources, including contact information, can also be found on the CMU Academics (http://coloradomesa.edu/academics) web page.
ABOUT COLORADO MESA UNIVERSITY

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ADMINISTRATION

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Administrative Staff

All Colorado Mesa University administrative staff can be found in the Faculty and Staff Listing (https://coloradomesa.edu/human-resources/employee-list).

Board of Trustees

Visit the Colorado Mesa University Board of Trustees website (https://www.coloradomesa.edu/trustees) for information, including biographies of acting trustees, meeting dates, and related documents.

Emeritus Faculty and Visiting Professors

Colorado Mesa University Recent Emeritus Faculty

(Date in parentheses indicates year of retirement. In accord with Faculty Senate action, this list is limited to faculty awarded emeritus status in the past 10 years.)

Monte Atkinson, AS, BFA, MM, DMA, Professor of Music (2018)
Cathy Barkley, BS, MS, PhD, Professor of Mathematics (2010)
Bruce Bauerle, BA, MS, DA, Professor of Biology (2016)
Richard Berkey, BA, MA, Associate Professor of English (2010)
Clare Boulanger, BS, MA, PhD, Professor of Anthropology (2014)
Steven Bradley, BA, MA, PhD, Professor of Art (2015)
James Brock, BS, MS, Associate Professor of Physical Sciences (2010)
Adele Cummings, BA, MS, PhD, Professor of Sociology (2015)
Harold Davenport, BS, MS, PhD, Professor of Mathematics (2010)
Jack Delmore, BM, MM, DMA, Professor of Music (2017)
Forbes Davidson, BS, PhD, Professor of Biological Sciences (2011)
Arun Ektare, PhD, Professor of Computer Science (2014)
Byron Evers, BS, MS, Associate Professor of Mass Communication (2013)
Karen Ford, BA, MA, PhD, Professor of Psychology (2017)
Sandy Forrest, BSN, MSN, PhD, Professor of Nursing (2017)
Judy Goodhart, RN, BS, MSN Professor of Nursing (2009)
Andrew Gordon, BA, MA, PhD, Professor of Spanish (2012)
Gig Leadbetter, BA, MS, PhD, Professor of Kinesiology (2015)
Daniel Flenniken, Associate Professor of Mass Communication (2017)
Myra Heinrich, BS, MA, PhD, Professor of Psychology (2014)
Robert Johnson, BA, MA, PhD, Professor of English (2010)
Gary Looft, Technical Instructor of Applied Technology - Transportation Services (2016)
Longino Luis Lopez, BA, MA, PhD, Instructor of English (2012)
Robert Mayer, BA, MS, Assistant Professor of Business (2017)
Gabriele Mayer-Hunke, BS, BA, MS, MA, Instructor of English and German (2017)
Gary McCallister, BS, MS, DA, Professor of Biological Sciences (2014)
Jerry Moorman, BS, MEd, EdD, Professor of Business (2013)
Laverne Mosher, BA, MFA Professor of Art (2009)
Maureen Neal, BA, MA, PhD, Professor of English (2015)
John Redifer, AA, BA, MA, PhD, Professor of Political Science (2018)
Kristine Reuss, BSN, MSN, PhD, Professor of Nursing (2017)
David Rogers, BA, MBA, Professor of Accounting (2012)
Cheryl Roy, BS, MSN, Associate Professor of Nursing (2010)
Bette Schans, BS, MS, PhD, Professor of Radiologic Technology (2016)
Patrick Schutz, BS, MS, PhD, Professor of Business Administration (2018)
Gayla Jo Slauson, BA, MBA, Associate Professor of Computer Information Systems (2017)
William Tiernan, BA, PhD, Professor of Physics (2017)
Cynthia Thomas, BSN, MS, PhD, Associate Professor of Nursing (2011)
Heather Waggoner, AA, BA, MFA, Professor of Theatre Arts (2015)
Susan Yeager, BA, MS, PED, Professor of Kinesiology (2011)

Colorado Mesa University Visiting Professors

Aspinall Professors

Carl Abbott (1985), History; BA, Swarthmore College; MA, PhD, University of Chicago
William Beezley (2008), History; BA, Chico State College; MA, PhD, University of Nebraska
Stephen Bennet (1995), History; BS, MS, Illinois State University-Normal; PhD, University of Illinois, Urbana-Champaign
Alan Block (1996), History, Political Science, and Public Affairs; AB, PhD, University of California-Los Angeles; MA, California State University
Peter Blodgett (2016), History; AB, Bowdoin College; MA, M. Phil, PhD, Yale University
Peter Boyle (1989), History and American Studies; MA, Glasgow University, Scotland; PhD, University of California, Los Angeles

Michael M. Brescia (2018), History; BA, West Virginia University; MA, PhD, University of Arizona

George Browder (2001), History; BS, Memphis State University; MA, PhD, University of Wisconsin at Madison

William Chaloupka (2009), Political Science; BS, University of Nebraska; MA, Arizona State University; PhD, University of Hawaii

Cornell Clayton (2014), BA, University of Utah; M.Litt; D.Phil, Oxford University

Walker Connor (1992), Political Science; John R Reitmayer Professor of Political Science, Trinity College

Thomas Davis (2007), History; BA, Fordham University; MA, PhD, Columbia University; JD, State University of New York-Buffalo

Roger Dingman (1991), History; BA, Stanford University; MA, PhD Harvard University

Richard W. Etulain (2010), History; AB, Northwest Nazarene College; MA, PhD, University of Oregon; DHL, Northwest Nazarene University

Richard Funston (1987), Political Science; BA, MA, PhD, University of California-Los Angeles; JD, University of San Diego

Andrew Gulliford (1997), History; BA, MAT, Colorado College; PhD, Bowling Green State University


Thomas Millington (2002), Political Science; BA, Williams College; MA, PhD, Johns Hopkins School of Advanced International Study

Robert Mortimer (1986), Political Science; BA, Wesleyan University; MA, PhD, Columbia University

William Parrish (2000), History, Political Science and Public Affairs; BS, Kansas State University; MA, PhD, University of Missouri

Edwin Perkins (2003), History, Political Science, and Public Affairs; BA, College of William and Mary; MBA, University of Virginia; PhD, Johns Hopkins University

F. Ross Peterson (2015), History; BA, Utah State University, PhD Washington State University

Glenda Riley (1993), History, Political Science and Public Affairs; PhD, University of Ohio

Pamela Riney-Kehrberg (1999), History; BA, Colorado College; MA, PhD, University of Wisconsin

William Robbins (1990), History; BS, Western Connecticut; MA, PhD, University of Oregon

Randolph Roth (2012), History and Sociology; BA, Stanford University; PhD, Yale University

Adam Soward, (2017), History; BA, University of Puget Sound; MA, PhD, Arizona State University

Jerome Steffen (1988), History; BS, University of Wisconsin, Madison; MA, Eastern Michigan University; PhD, University of Missouri

Zachary Smith (1994), History, Political Science and Public Affairs; BA, California State University, Fullerton; MA, PhD, University of California, Santa Barbara

Robert Westbrook (2004), History; BA, Yale University; PhD, Stanford University

John Wills, Jr. (2005), History; BA, University of Illinois; MA, PhD, Harvard University

Peter H. Wood (2013), History; BA, Harvard University; BA, University of Oxford; PhD, Harvard University

Faculty

A

Shauna Acker (2013), Instructor of Nursing; BSN, Graceland University Iowa; MSN, Graceland University Iowa; DNP, University of Colorado-Colorado Springs

Thomas Acker (1999), Professor of Spanish; BS, Kutztown University; MA, Temple University; PhD, Temple University

William Adams (2017), Assistant Professor of Construction Management; BS, University of Georgia-Athens; MS, Southern Polytechnic State University; MBA, Southern Polytechnic State University; PhD, Texas State University

Andrew Affrunti (2011), CU Instructor of Mechanical Engineering; BS, University of Illinois-Urbana; MS, University of Illinois-Urbana

William Aikens (2016), Instructor of Music; BS, Duquesne University; BM, Universit of Cincinnati; DMA, Arizona State University

Nancy Alex (2015), Assistant Professor of Teacher Education; BA, University of Wyoming; MA, Adams State College; PhD, University of Denver

Tyler Anderson (2006), Associate Professor of Spanish; AA, Ricks College; BA, Brigham Young University; MA, Brigham Young University; PhD, Pennsylvania State University

Jason Andrews (2017), Assistant Professor of Speech; BA, St. Andrews Presbyterian College; BFA, St. Andrews Presbyterian College; MAMC, University of Florida; PhD, The Pennsylvania State University

Graham Anduri (2016), Assistant Professor of Music; BM, Colorado State University; MM, University of Florida; DMA, University of Southern Mississippi

Catherine-Jane Angwin (2017), Assistant Technical Professor of Agriculture; AAS, Northwest College; AS, Northwest College; BS, University of Wyoming; MS, University of Kentucky

Andres Aslan (1999), Professor of Geology; BS, Brown University; MS, University of Colorado; PhD, University of Colorado

James Ayers (2007), Associate Professor of Chemistry; BS, University of Texas-Austin; PhD, Stanford University
Edward Bonan-Hamada (1997), Associate Professor of Mathematics; MS, Colorado State University; PhD, University of Northern Colorado

Blake Bickham (2007), Associate Professor of Teacher Education, Department Head of Teacher Education; BA, Texas A&M University; MA, Texas A&M University; EdD, University of Houston

Meghan Bissonnette (2017), Assistant Professor of Art, Art Gallery Director; BFA, NSCAD University; BA, NSCAD University; MA, York University; PhD, York University

Catherine Bonan-Hamada (1996), Professor of Mathematics; BS, Colorado State University; MS, Colorado State University; PhD, University of Colorado

Edward Bonan-Hamada (1997), Associate Professor of Mathematics; BA, University of Rochester; MA, University of Hawaii; PhD, University of Colorado

Elizabeth Branscum (2016), Technical Instructor of Culinary Arts; BS, University of Central Missouri

Morgan Bridge (1995), Professor of Business; BBA, Chadron State College; MA, Chadron State College; PhD, University of Wyoming

Amy Bronson (2017), Assistant Professor; Physician Assistant Program Director; BA, Metropolitan State University; MMS, St. Francis University; EdD, Bethel University

Timothy Brower (2009), Director, CMU/CU-Boulder Mechanical Engineering Partnership Program; BS, Idaho State University; MS, Montana State University; PhD, Colorado State University

Julie Bruch (2002), Professor of English; BA, Western Michigan University; MA, University of Kansas-Lawrence; PhD, University of Kansas-Lawrence

Holly Buglewicz (2016), Instructor of Speech; BS, University of Nebraska; BA, University of Nebraska; MA, University of Nebraska

George Burrell (2015), Technical Instructor of Electric Lineworker

Bonnie Butler (2011), Instructor of English; BA, Fort Lewis College; MA, Colorado State University

Joshua Butler (2006), Professor of Art; BFA, Colorado State University; MFA, Colorado State University

Dale Call (2007), Instructor of Biology; MD, University of Maryland-College Park

Robin Calland (2009), Associate Professor of English; BA, University of Colorado-Denver; MA, University of Colorado-Boulder; PhD, University of Colorado-Boulder

William Campbell (2013), Technical Instructor of Welding; AAS, Utah Valley University; BS, Utah Valley University

Michael Carlton (2012), Technical Instructor of Manufacturing Technology; AA, Mesa Community College

Colin Carman (2013), Instructor of English; BA, Hamilton College; MA, University of California-Santa Barbara; PhD, University of California-Santa Barbara

Michael Carsten (2010), Technical Instructor of Transportation Services;
Theresa Chase (2014), Assistant Professor of Nursing; BA, Western State College; MA, University of Santa Monica; MA, University of Denver; ND, University of Colorado

Cynthia Chovich (2007), Associate Professor of Teacher Education; BA, California State University-San Marcos; MA, Grand Canyon University; EdD, Walden University

Gary Chrisko (2017), Director of Aviation Technology (Interim);

Carol Christ-Campbell (2004), Instructor of English; BA, Mesa State College; MFA, Colorado State University

Rhonda Claridge (2008), Instructor of English; BA, New York University; MA, University of Texas-Austin

Kelly Coffin (2009), Instructor of Nursing; AS, Washburn University; BSN, Washburn University; MSN, Walden University

Rex Cole (1995), Professor of Geology; BS, Colorado State University; PhD, University of Utah

David Collins (2006), Professor of Physics; BS, Rhodes University; PhD, University of Texas-Austin

Melissa Connor (2012), Professor of Forensic Anthropology, Director of the Forensic Investigation Research Station; BA, University of Wisconsin; MA, University of Wisconsin; PhD, University of Nebraska-Lincoln

Jill Cordova (1992), Professor of Kinesiology; BA, Humboldt State University; MA, Humboldt State University; PhD, University of New Mexico

Brenda Courtad (2016), Assistant Professor of Business; BS, Ohio State University; MBA, University of Findlay; PhD (ABD), University of Cincinnati

Ann Cox (2017), Assistant Professor of Nursing; AS, Colorado Mesa University; BSN, Colorado Mesa University; MS, University of Colorado-Colorado Springs; DNP, University of Colorado-Colorado Springs

Kelly Craig (2012), Associate Professor of Biology; BS, University of Kansas; PhD, Georgetown University

Blake Crossley (2007), Instructor of Spanish; BA, Brigham Young University; MA, Brigham Young University

Tracy Cyr (2013), Instructor of Biology; BS, University of California; MS, Washington State University; PhD, University of Missouri-Columbia

Lynn Duncan (2011), Assistant Professor of Nursing; BSN, South Dakota State University

E

Eric Elliott (2015), Assistant Professor of Art; BFA, University of California-Berkley; MFA, University of Washington-Seattle

Megan Engelund (2013), Technical Instructor of Marketing; BBA, Colorado Mesa University; MBA, Colorado Mesa University

Lorrie Etenburn (2016), Instructor of Nursing;

Juliet Evans (2012), Instructor of Nursing; BSN, Colorado Mesa University

F

Cathleen Farrell (2017), Instructor of Mathematics; AA, Broward College; BS, Florida Atlantic University; MS, Florida Atlantic University; MS, The University of Florida

Cathy Feller (2007), Assistant Professor of Nursing; BSN, University of Maine; MSN, Walden University

Cassandra Fenton (2016), Instructor of Geology; BS, University of Rochester; MS, University of Utah; PhD, University of Utah

Carolyn Ferreira-Lillo (2009), Assistant Technical Professor of Technology Integration; BSSE, The City College of New York; MS, Stony Brook University

Marc Fischer (2011), Instructor of Mathematics; BS, Mesa State College; MS, Ruhr Universitat Bochum

Sean Flanigan (2006), Associate Professor of Music; BS, University of Illinois; MM, University of Illinois; DMA, University of Northern Texas

William Flanik (2014), Assistant Professor of Political Science; BA, Virginia Commonwealth University; PhD, University of Toronto

Glenn Fossett (2004), Assistant Professor of Accounting; BS, University of Missouri; MBA, Western State College

Jeremy Franklin (2007), Instructor of Music Theatre; BA, Ouachita Baptist University

Theresa Friedman (2002), Professor of Mathematics; BS, Saint Joseph's University-Philadelphia; MS, Lehigh University; PhD, Lehigh University

Lisa Friet-Redifer (1998), Professor of Teacher Education; BA, University of California-Santa Barbara; MEd, Northern Arizona University; EdD, Northern Arizona University

Keith Fritz (1997), Professor of Kinesiology; BS, Oregon State University; MS, University of New Mexico; PhD, University of New Mexico

Megan Fromm (2015), Assistant Professor of Mass Communication; BA, Mesa State College; PhD, University of Maryland

G

Teresa Garner (1995), Professor of Art, Department Head of Art and Design; BFA, Stephen F. Austin State University; MA, Stephen F. Austin State University; MFA, West Texas A&M

Daniel Garrison (2016), Instructor of Mass Communication; BS, Northwestern University; MS, Syracuse University
Amanda Gauthier (2016), Associate Professor of Nursing; BSN, University of Colorado; MSN, University of Colorado

Barbara Geiger (2000), Instructor of English; BA, Texas Tech University; MA, Texas Tech University; PhD, Texas Tech University

TJ Gerlach (2005), Associate Professor of English; BA, University of Utah; MFA, University of Utah; PhD, University of Denver

Ann Gillies (2014), Assistant Professor of Teacher Education; BS, Ohio State University; MA, Ohio State University; PhD, University of South Florida

Susan Goebel (1998), Associate Professor of Nursing; BSN, University of North Dakota; MS, University of North Dakota

James Goetz (1999), Technical Instructor of Transportation Services; AAS, Mesa State College

Justin Gollob (2008), Associate Professor of Political Science; BS, Idaho State University; MA, Temple University; PhD, Temple University

Lucy Graham (2016), Assistant Professor of Nursing; BS, University of Kansas; BA, University of Kansas; MPH, University of Northern Colorado; PhD, University of Colorado

Nicole Grider (2016), Instructor of Speech; BS, University of Central Missouri; MA, University of Central Missouri

Carmine Grieco (2015), Assistant Professor of Kinesiology; BS, University of Wyoming; MS, Old Dominion University; PhD, Old Dominion University

Olga Grisik (2013), Assistant Professor of Radiologic Technology; AAS, Mesa State College; BS, State University Lvivska Politekhnika; MS, State University Lvivska Politekhnika

Tedra Gummin (2017), Instructor of Nursing; AS, Mesa State College; BSN, Mesa State College; MSN, Colorado Mesa University

Geoffrey Gurka (2001), Professor of Accounting; BA, University of Connecticut; MA, Florida State University; PhD, Michigan State University

Damion Gustafson (2016), Technical Instructor of Welding Technology; AAS, Mesa State College

Philip Gustafson (1998), Professor of Mathematics; BS, State University of New York-Oneonta; MS, Washington State University; PhD, Washington State University

Paul Hampton (2012), Associate Professor of Biology; BS, Eastern Illinois University; MS, University of Texas-Tyler; PhD, University of Louisiana-Lafayette

Jennifer Hancock (2008), Associate Professor of English; BA, Oklahoma State University; MFA, Sarah Lawrence College; PhD, Oklahoma State University

Eriek Hansen (2013), Associate Professor of Biology; BS, Utah State University; MS, Utah State University; PhD, University of Wyoming

Michele Hanson (2008), Instructor of English and French; BA, University of California-Santa Barbara; MA, University of New Hampshire; MLS, University of Arizona

Alison Harris-Ludlow (2012), Assistant Professor of Art; BA, University of California-Davis; BFA, Sonoma State University; MEd, National University; MFA, California State University-Long Beach

Tim Hatten (1995), Professor of Business; BA, Western State College; MS, Central Missouri State; PhD, University of Missouri

Jeremy Hawkins (2013), Associate Professor of Kinesiology, Department Head of Kinesiology; BS, Brigham Young University; MS, Oregon State University; PhD, Brigham Young University

Deborah Henderson (2014), Technical Instructor of Baking and Pastry; AA, Mesa State College

Megan Henley (2016), Assistant Professor of Sociology; BA, University of California-Irvine; MA, University of Arizona; PhD, University of Arizona

Jessica Herrick (1995), Professor of Psychology, Department Head of Social and Behavioral Sciences; BA, University of Wyoming; MS, University of Wyoming; PhD, University of Wyoming

Chelsie Hess (2016), Assistant Professor of Psychology; BA, University of Wyoming; MA, University of Northern Colorado; PhD, University of Northern Colorado

Kristin Heumann (2011), Associate Professor of Kinesiology; BA, Northwestern College; MS, Arizona State University; PhD, Arizona State University

Heath Hillman (2016), Instructor of Mathematics; BS, Colorado Mesa University; MS, Youngstown State University

Jonathan Hinkle (2012), Associate Professor of Music; BME, Florida State University; MME, Florida State University; PhD, Florida State University

Denise Hoctor (2012), Instructor of Teacher Education; BS, Eastern Michigan University; MA, Western State College

Calvin Hofer (1998), Professor of Music, Department Head of Music; BA, South Dakota State University; MME, University of Wisconsin; DMA, University of Northern Texas

Glen Hoff (2013), Technical Instructor of Construction Technology; BA, California Polytechnic State University

Pamela Holder (2008), Technical Instructor of Emergency Medical Services; BS, Colorado Christian University; FTO, Colorado Christian University

Janice Holvoet (2016), Assistant Professor of Nursing; BSN, University of Colorado; MSN, University of Colorado; PhD, University of Colorado

H

Kurtis Haas (1999), Professor of English, Acting Vice President for Academic Affairs; BA, Truman State University; MA, Truman State University; PhD, University of Nebraska

Kristen Hague (2001), Professor of English; BA, Providence College; MA, University of New Mexico; PhD, University of New Mexico

Eli Hall (2012), Associate Professor of Art; BFA, Missouri State University; MFA, Colorado State University; MA, Lindenwood University

Kathleen Hall (2015), Assistant Professor of Nursing; BS, University of Maryland; BSN, University of Alabama-Huntsville; MS, University of Arizona; PhD, University of Arizona
Steven Hopkins (2017), Instructor of English; BA, Brigham Young University-Idaho; MA, Brigham Young University-Idaho; PhD, Arizona State University

Brian Hosterman (2014), Assistant Professor of Physics; BS, Denison University; MS, University of Nevada-Las Vegas; PhD, University of Nevada-Las Vegas

Arthur Houle (2006), Professor of Music; BM, University of Massachusetts-Lowell; MM, New England Conservatory; DMA, University of Iowa

Jeanine Howe (2006), Associate Professor of Theatre; BFA, Otterbein College; MFA, Carnegie-Mellon University

Erika Jackson (2010), Associate Professor of History; BA, Michigan State University; MA, Loyola University; PhD, Michigan State University

Eliot Jennings (2013), Assistant Professor of Public Administration; BS, University of North Texas; MPA, University of North Texas; PhD, University of North Texas

Verner Johnson (1989), Professor of Geology; BA, Southern Illinois University; MS, Southern Illinois University; PhD, University of Tennessee

Jacob Jones (2011), Associate Professor of Psychology; BS, Bluefield College; MS, Radford University; PhD, Indiana State University

Kristen Jones (2011), Associate Professor of Psychology; BA, Emory & Henry College; MS, Radford University; PhD, Ball State University

Labecca Jones (2013), Instructor of English; BA, Colorado Mesa University; MA, Oklahoma State University

Lawrence Jones (2013), Instructor of Geology; BS, Fort Lewis College; MS, Northern Arizona University; PhD, University of Wyoming

Georgann Jouflas (2008), Instructor of Business; BA, University of Colorado; MBA, George Washington University

Jeremy Jurgens (2013), Instructor of English; BS, Utah Valley University; MA, Oregon State University

Darin Kamstra (2004), Professor of Music; BA, Eastern Washington University; BM, Eastern Washington University; MM, University of Northern Colorado; DMA, University of Illinois-Urbana-Champaign

Alaa Kassir (2008), Associate Technical Professor of Developmental Mathematics; BS, University of Wisconsin-Madison; MS, University of Wisconsin-Madison

George Kelly (2016), Instructor of Business; AAS, Mesa State College; BBA, Colorado Mesa University; MBA, Colorado Mesa University

Deborah Kennard (2005), Professor of Environmental Science and Technology; BA, Trinity University; MA, University of Florida; PhD, University of Florida

Suzanne Kenney (2006), Instructor of Chemistry; BS, Clarkson University; MS, Clarkson University

Brian Kessler (2010), Associate Professor of Mechanical Engineering; BS, University of Missouri; MS, University of Missouri; PhD, University of Missouri

Philip Kiefer (2015), Instructor of Chemistry; BS, University of California-Davis; MS, University of California-San Diego; PhD, University of California-San Diego

James King (2017), Assistant Professor of Statistics; BA, Austin College; MS, Texas A&M University; MS, Baylor University; PhD, Baylor University

Tiffany Kinney (2017), Assistant Professor of English; BA, Westminster College; MA, University of Oregon; PhD, University of Utah

Susan Konantz (2006), Technical Instructor of Developmental Education; BA, University of Oregon; BA, Lesley University

Eric Lackey (2016), Instructor of English; BA, University of Kansas; MA, University of Kansas; MFA, University of Texas

Barry Laga (1997), Professor of English, Department Head of Languages, Literature, and Mass Communication; BA, Brigham Young University; MA, Brigham Young University; PhD, Purdue University

Richard LaMee (2012), Assistant Professor of Theatre, Department Head of Theatre Arts; BA, Loretto Heights College; MFA, National Theatre Conservatory

Sarah Lanci (2015), Assistant Professor of Mechanical Engineering Technology; BS, Michigan State University; MS, Colorado School of Mines

Michael Legate (2014), Instructor of Theatre; BFA, University of Montana; MFA, University of Nebraska-Lincoln

Steven Liff (2016), Technical Instructor of Applied Business; AAS, Colorado Mesa University; BS, Colorado State University; MS, Colorado State University

Richard Livaccari (1997), Professor of Geology; BS, University of New Mexico; MS, State University of New York-Albany; PhD, University of New Mexico

Samuel Lohse (2014), Assistant Professor of Chemistry; BS, Idaho State University; MS, Idaho State University; PhD, University of Oregon

Kindra Loyd (2014), Instructor of Nursing; BSE, Southwest Missouri State University; BSN, University of Colorado Health Sciences Center; MSN, University of Colorado Health Sciences Center

Meredith Lyons (2016), Assistant Professor of Dance; BA, Mercyhurst University; MFA, Smith College

Warren MacEvoy (2001), Professor of Computer Science; BS, Colorado Mesa University; MS, University of Arizona; PhD, University of Arizona

Michael Mahoney (2016), Technical Instructor of CAD Technology; BA, California State University-Northridge

Kathleen Marshall (2012), Assistant Professor of Nursing; BS, University of Colorado; MS, University of Colorado; DNP, University of Utah
Britt Mathwich (2011), Associate Professor of Business; BA, University of New Mexico; MA, Eastern New Mexico University

Stephanie Matlock (1995), Instructor of Biology; BA, University of Colorado-Boulder; MS, Montana State University-Bozeman

Tracy Matthews (2011), Instructor of Medical Laboratory Technology; BS, University of Arkansas for Medical Sciences; MS, University of North Dakota

Daniel McClintock (2007), Technical Instructor of Visual Communication; BA, Mesa State College

Max McFarland (2010), Instructor of Mathematics; AS, Colorado Mesa University; BS, Mesa State College; MS, University of Colorado

Richard McGraw (2016), Assistant Technical Professor of Technology Integration; BS, University of South Florida

Denise McKenney (1996), Professor of Biology; BS, New Mexico State University; PhD, North Carolina State University-Raleigh

Christopher McKim (2013), Instructor of Music; BM, Wichita State University; MM, Arizona State University; DMA, University of Colorado-Boulder

Kathy McKinney (2017), Instructor of Nursing; BSN, Mesa State College; MSN, Colorado Mesa University; DNP, Colorado Mesa University

John McLaughlin (2016), Technical Instructor of Construction Electrical; AAS, North Dakota State

Nathan McNeill (2012), CU Instructor of Mechanical Engineering; BS, WallaWalla University; MS, Georgia Institute of Technology; PhD, Purdue University

Kyle McQuade (2006), Associate Professor of Biology; BS, Millikin University; PhD, University of Wisconsin-Madison

Carrie McVean Waring (1996), Professor of Biology; BS, Colorado State University; DVM, Colorado State University

Stephen Merino (2016), Assistant Professor of Sociology; BS, Brigham Young University; MA, Pennsylvania State University; PhD, Pennsylvania State University

Joshua Meuwly (2013), Technical Instructor of Digital Design; BA, Art Institute of Colorado

Chad Middleton (2006), Professor of Physics; BS, Eastern Illinois University; PhD, University of Tennessee-Knoxville

Greg Mikolai (2011), Instructor of Mass Communication; BA, College of Saint Thomas

Eric Miles (2015), Assistant Professor of Mathematics; BS, Colorado Mesa University; PhD, Colorado State University

David Miller (2015), Technical Instructor of Developmental Education; BS, Colorado Mesa University

Les Miller (2003), Associate Professor of Philosophy; BA, Mesa State College; MA, Claremont Graduate University; PhD, Claremont Graduate University

Troy Miller (2013), Assistant Professor of Construction Management; BS, Brigham Young University; MS, Colorado State University

Jeffrey Mills (2017), Instructor of Computer Information Systems; BS, University of Colorado-Colorado Springs; MS, Colorado Technical University; MBA, University of Colorado-Colorado Springs

Tamera Minnick (2002), Professor of Environmental Science and Technology; BS, University of Nebraska; PhD, Colorado State University

Holly Mitchell (2017), Instructor of Mathematics; AA, North Central Texas College; BS, Texas Women's University; MS, Texas Women's University

Peter Mitrano (2016), CU Instructor of Mechanical Engineering; BS, University of New Hampshire; PhD, University of Colorado-Boulder

Allison Morris (2011), Instructor of English; BA, Texas A&M University; MA, Texas A&M University

Steven Murray (1998), Professor of Kinesiology; BS, University of North Alabama; MS, Middle Tennessee State University; DA, Middle Tennessee State University

John Nizalowski (1990), Instructor of English; BA, Binghampton University; MA, University of Delaware

Christine Noel (2017), Assistant Professor of Accounting; BS, Metropolitan State University; MS, University of Colorado-Denver; PhD, Trident University International

Jodi Noga (2017), Assistant Professor of Nursing; BSN, South Dakota State University; MSN, Regis University

Steven Norman (2016), Professor of Business, Department Head of Business; BS, University of Colorado-Colorado Springs; MBA, University of Colorado-Colorado Springs; PhD, University of Nebraska-Lincoln

Douglas O’Roark (1994), Professor of History; BA, Ohio State University; MA, Ohio State University; PhD, Ohio State University

KyoungHwa Oh (2013), Assistant Professor of Art; BFA, Washburn University; MFA, Southern Illinois University-Carbondale

Richard Ott (2006), Associate Professor of Statistics; BS, St. Mary’s University; MS, University of Missouri-Rolla; PhD, Rice University

Gina Owens (2006), Associate Professor of Accounting; BS, Norfok State University; MBA, University of Missouri-Kansas City; MSEd, Emporia State University

Darren Oxford (2010), Technical Instructor of Medical Preparation; Associate, Colby Community College; BA, Mesa State College

Ayse Ozsoy Bean (2010), Assistant Professor of Biology; BS, Bogazici University-Turkey; PhD, University of North Carolina-Chapel Hill

Erik Packard (1996), Associate Professor of Mathematics; BS, Texas Tech University; MS, Texas Tech University; PhD, Texas Tech University
Tammy Parece (2016), Instructor of Geography; BS, Virginia Commonwealth University; MS, Virginia Polytechnic Institute & State University; PhD, Virginia Polytechnic Institute & State University

Deborah Parmar (2001), Assistant Professor of Business; BA, Colorado State University; MAM, University of Redlands

Brian Parry (2008), Associate Professor of Psychology; BA, University of Utah; MS, Brigham Young University; PhD, Brigham Young University

Vincent Patarino (2008), Associate Professor of History; BA, University of Colorado-Boulder; BS, University of Colorado-Boulder; MA, University of Colorado-Boulder; PhD, University of Colorado-Boulder

Lori Payne (1986), Professor of Computer Science; BA, Mesa College; MS, New Mexico Institute of Mining and Technology; PhD, University of Northern Colorado

Jenny Peil (2011), Assistant Professor of Psychology; BS, Colorado State University; MS, Florida Institute of Technology; PsyD, Florida Institute of Technology

Christopher Penick (2016), Assistant Professor of Engineering; BS, Wright State University; MS, University of Dayton

James Perez (2015), Assistant Professor of Mass Communication; BA, California State University; PhD, University of California-San Diego

Nathan Perry (2010), Associate Professor of Business; BA, Westminster College; PhD, University of Utah

Michael Philipp (2012), Instructor of Accounting; MACct, University of Central Arkansas; MBA, University of Kassel, Germany

Randy Phillips (1993), Professor of English; BA, Wichita State University; MFA, Wichita State University; PhD, Oklahoma State University

John Piatanesi (2013), POST Academy Director; BA, Western Illinois University

Linda Pilcher (2013), Instructor of Nursing; AND, Mesa College; BA, Western State College; BSN, South University; MSN, South University

Timothy Pinnow (2010), Professor of Theatre, Senior Vice President for Strategic Initiatives, Director of Distance Education, and Director of Graduate Studies; BA, Luther College; MFA, University of Florida

Thomas Potter (2016), Technical Instructor of Electric Lineworker

Joseph Quesenberry (2005), Technical Instructor of Applied Math; BS, Mesa State College

Jane Quimby (2012), Director of Public Safety; BS, University of Utah; JD, Denver University

Carolyn Quinn-Hensley (2000), Professor of Art; BFA, University of Hawaii; MFA, University of Hawaii-Manoa

Michael Reddoch (2011), Associate Professor of English; BA, Millsaps College; PhD, University of Cincinnati

John Reece (2006), Professor of Criminal Justice; BA, Mesa State College; MPA, University of Colorado-Denver; PhD, Northcentral University

Michael Reeder (2015), Acting Director, Monfort Family Human Performance Lab; BS, Youngstown State University; DO, Ohio University Heritage College of Osteopathic Medicine

Benjamin Reigel (2017), Assistant Professor of Theatre; BA, University of Minnesota; MFA, University of Delaware

Markus Reitenbach (2006), Associate Professor of Mathematics; MS, University of Ulm; PhD, Syracuse University

Joseph Richards (1995), Professor of Chemistry; BA, University of San Diego; PhD, University of North Carolina

Alison Robb (2016), Technical Instructor of Wildland Fire Management; BS, University of Montana; BA, University of Montana

Jason Roberson (2016), Assistant Technical Professor of Transportation Services; AAS, Colorado Mesa University; BS, Colorado Mesa University

Anita Roberts (2016), Instructor of Nursing; AS, Armstrong State College; BSN, University of Phoenix; MSN, University of Phoenix

Adam Rosenbaum (2011), Associate Professor of History; BA, Virginia Wesleyan College; MA, Old Dominion University; PhD, Emory University

Molly Ryan (2013), Instructor of Mathematics; BS, University of Northern Colorado; MA, Adams State University

Kristin Santos (2017), Assistant Professor of Criminal Justice; BS, Lake Superior State University; BS, Lake Superior State University; MS, University of Cincinnati; PhD, University of Akron

Bette Schans (1994), Professor Emeritus of Radiologic Technology, Interim Director, Department of Health Sciences; BS, Metropolitan State College; MS, University of Colorado; PhD, Colorado State University

Jarrod Schiffbauer (2017), Visiting Assistant Professor of Physics; BS, Ohio University; MS, Ohio University; PhD, West Virginia University

Mark Schmalz (2012), Instructor of Teacher Education; BA, Colorado Mesa University; MA, Adams State College

Araan Schmidt (2012), Assistant Professor of Art; BFA, Kansas City Art Institute; MFA, University of Minnesota

Steven Schulte (1989), Professor of History; BA, University of Wisconsin-River Falls; MA, Colorado State University; PhD, University of Wyoming

Daniel Schultz-Ela (2006), Professor of Mathematics; BA, Carlton College; MS, Brown University; PhD, University of Minnesota

Heather Seago (2016), Instructor of Nursing; BA, Mesa State College; BSN, Mesa State College; MSN, Colorado Mesa University

John Seebach (2014), Assistant Professor of Archaeology; BA, University of Texas-El Paso; MA, Southern Methodist University; PhD, Southern Methodist University

Elizabeth Sharp (2011), Associate Professor of Kinesiology; BS, Arkansas Tech University; MEd, Arkansas; PhD, Middle Tennessee State University

Cathy Shawcroft (2009), Instructor of Nursing; BSN, Colorado Mesa University; MSN, Walden University
Anwar Shiekh (2010), Instructor of Physics; BS, Imperial College, London University; PhD, Imperial College, London University

Luis Silva-Villar (2000), Professor of Spanish; MA, Real Conservatorio Superior de Musica de Madrid; MA, University of California-Los Angeles; PhD, University of California-Los Angeles

Diana Sirota (2017), Instructor of Teacher Education; BS, University of Northern Colorado; MA, University of Colorado-Boulder; PhD, University of Colorado-Denver

Judith Sirota (2014), Instructor of Biology; AS, Colorado Mesa University; BS, Colorado State University; MS, Michigan State University

Laura Slaymaker (2017), Instructor of Chemistry; BS, University of Nebraska-Kearney; PhD, University of Wisconsin-Madison

Wayne Smith (1998), Assistant Technical Professor of Culinary Arts; AAS, Mesa State College

John Snyder (2005), Professor of Computer Information Systems; BA, Fort Lewis College; MA, University of New Mexico; PhD, University of New Mexico; MS, Nova Southeastern University

Patrick Snyder (2017), Instructor of Mathematics; BS, Colorado Mesa University; MS, Western Illinois University

Steven Soychak (2015), Instructor of Energy Management/Landman; BS, University of Oklahoma

Jonathan St Peter (2004), Assistant Technical Professor of Culinary Arts; AAS, Colorado Mountain College

Matthew Stansbury (2014), Assistant Professor of Biology; BS, University of Nebraska-Omaha; PhD, Indiana University-Bloomington

Stephen Stem (2011), Associate Professor of Biology; BS, University of North Carolina-Asheville; PhD, University of Utah

Genell Stites (2008), Associate Professor of Nursing; BSN, University of Northern Colorado; MSN, Regis University

Kyle Stone (2013), Associate Professor of Business; BS, Central Missouri State University; MEd, Colorado State University; PhD, Colorado State University

Risharra Stulc (2013), Instructor of Mathematics; BS, University of Northern Colorado; MEd, Grand Canyon University

Brigite Sundermann (2001), Acting Vice President of Community College Affairs; BSCE, Colorado State University; MBA, University of Phoenix; PhD (ABD), Colorado State University

Michelle Sunkel (2012), Assistant Professor of Social Work; BS, Lincoln University; MSW, San Diego State University; MBE, Katholieke Universiteit Leuven; DSW, Capella University

Sarah Swedberg (1999), Professor of History; BA, State University of New York-Plattsburgh; MA, Northeastern University; PhD, Northeastern University

Thomas Sylvester (2017), Technical Instructor of Land Surveying;

T

Denis Thibodeau (1999), Technical Instructor of CAD Technology; AAS, Rogue Community College

U

Karen Urban (2011), Assistant Professor of Nursing; BSN, University of Pittsburgh; MSN, University of Pittsburgh

V

Richard Vail (1997), Professor of Business; BS, University of California-Davis; MS, University of Colorado; PhD, Oxford University

Mayela Vallejos-Ramirez (2003), Professor of Spanish; BA, Universidad de Costa Rica; MA, West Virginia University; PhD, University of Nebraska

Jill Van Brussel (2013), Assistant Professor of Theatre; BS, University of California-Santa Barbara; MA, Bowling Green State University; MFA, Purdue University

Scott Vangemeren (2015), Assistant Professor of Radiologic Technology; BS, University of Kansas; MS, Weber State

Johanna Varner (2016), Assistant Professor of Biology; BS, Massachusetts Institute of Technology; PhD, University of Utah

Elaine Venter (2017), Instructor of Mass Communication; BA, California State University-Fresno; MA, University of San Francisco; MA, Claremont University

W

Russell Walker (1993), Professor of Environmental Science and Technology, Department Head of Physical and Environmental Sciences; AB, Oberlin College; PhD, Iowa State University

Thomas Walla (2001), Associate Professor of Biology; BA, University of California-San Diego; PhD, University of Oregon-Eugene

Lynda Ward (1998), Professor of Radiologic Technology; BS, Colorado Christian University; MEd, Lesley University; PhD, Colorado State University

Wayn Ward (2010), Instructor of Mathematics; BS, Mesa State College; MS, University of Nevada-Las Vegas

Junichiro Watabe (2014), Assistant Professor of Music; BM, Aichi Prefectural University of Fine Arts and Music; MM, University of Northern Colorado; DA, University of Northern Colorado

David Weinberg (2011), Associate Professor of Chemistry; BA, University of San Diego; PhD, California Institute of Technology

Steven Werman (1989), Professor of Biology; BS, California State University-Long Beach; MS, California State University-Long Beach; PhD, University of Miami

Shay West (2011), Instructor of Biology; BS, Mesa State College; PhD, University of Colorado-Denver

Brenda Wilhelm (2000), Professor of Sociology; BA, University of Minnesota; MA, University of Arizona; PhD, University of Arizona

Judy Williams (2008), Associate Professor of Nursing; BSN, Mesa State College; MSN, Walden University
Timothy Winegard (2013), Instructor of History; BA, University of Western Ontario; BEd, Nipissing University; BA, University of Guelph; MA, Michigan State University; PhD, University of Oxford

Freddy Witarsa (2017), Assistant Professor of Environmental Science and Technology; BS, Drake University; PhD, University of Maryland

Andrew Wolff (2017), Instructor of Chemistry; BS, University of California-Santa Barbara; PhD, University of Wisconsin-Madison

Eileen Woolwine (2017), Assistant Professor of Nursing; BS, Western Governors University; MSN, Western Governors University

Jared Workman (2011), Associate Professor of Physics; BS, Temple University; MS, University of Colorado; PhD, University of Colorado

Eric Wright (2006), Assistant Technical Professor of Transportation Services; AAS, Oklahoma State University-Institute of Technology

William Wright (1998), Professor of English; BA, Linfield College; MA, University of New Hampshire; PhD, University of Arizona

Zhong Wu (1989), Professor of Mathematics; BS, China University of Science and Technology; PhD, University of Cambridge

Y

Kristen Yeon-Ji Yun (2012), Associate Professor of Music; BM, Seoul National University; MM, Seoul National University; DMA, Indiana University

Z

Forrest Zerbe (2017), Instructor of Art; AAS, Colorado Mesa University; BGS, Indiana University-Purdue; MFA, Savannah College of Art and Design

Michael Zunich (2017), Instruction Assistant of Electric Lineworker;

University Leadership

Information about Colorado Mesa University's President, Vice Presidents, Provost, and unit Directors can be found on the University Leadership (https://www.coloradomesa.edu/about/leadership.html) web page.
CAMPUSES AND FACILITIES

Colorado Mesa University’s Main Campus encompasses 103 acres in the heart of Grand Junction, Colorado. Nestled between mountains and high-desert canyons, the area is home to some of the best outdoor recreation in the country and enjoys approximately 300 days of sunshine a year. Explore Colorado Mesa University’s main campus virtually at future/coloradomesa.edu.

The Tilman M. Bishop Campus, located on Blichmann Avenue in the Foresight Industrial Park in Grand Junction, Colorado, is the result of a partnership among the University, Mesa County Valley School District 51, and area businesses. It is the main site of Colorado Mesa University’s two-year division, Western Colorado Community College (WCCC). Programs at the Bishop Campus serve the technical education needs of both university and area high school students, as well as continuing/community education needs of industry and individuals.

Located at the base of the beautiful San Juan mountains, the Montrose Campus of Colorado Mesa University provides access to a variety of associate and bachelor degree programs in a scenic, smaller community campus setting. The Montrose Campus is located on South Cascade Avenue in Montrose, Colorado, and offers courses leading to the completion of selected associate of art (AA) degrees; bachelor of art (BA) degree completion tracks; essential learning classes, and selected upper-division and graduate-level classes.

The South Facility/Industrial Energy Training Center, located at 29 and D 1/2 roads in Grand Junction, Colorado, houses staff offices, training areas and classrooms for the electric lineworker program.

The Whitewater Facility houses CMU’s Forensic Investigation Research Station.

Academic Buildings

Albers Hall (1935, 2008, 2012) houses staff offices for diversity, advocacy and health, as well as the mentoring program.

The Archuleta Center (2009), located near the Bishop Campus in the Foresight Industrial Park, houses classrooms and offices for construction management and machining technology programs. The center features an electrical lab, a computer lab and 9,200 square-feet of high bay learning labs.

Bishop Health Sciences (2013), located on the Bishop Campus, houses classroom and laboratory space for certificate and associate degree programs in health sciences.

Building B (1997), located on the Bishop Campus, houses WCCC student services offices, the Community Education Center and Chez Lena restaurant as well as instructional space for culinary arts, computer aided design, the peace officer standards and training academy, applied business, visual communications/film-making and high school programs.

The Campus Services Center (2007) houses offices for purchasing, warehouse/receiving and mail room staff as well as offices, shops and storage areas for facilities staff.

Confluence Hall (2018), the new 68,700 square-foot engineering building opened in January 2018. It houses CMU’s engineering programs, including the civil, mechanical and electrical/computer engineering programs delivered at CMU through a partnership with the University of Colorado Boulder. The building is also the new home for Eureka! McConnell Math and Science Museum.

Dominguez Hall (2008) houses modern classrooms, lecture auditoriums, small breakout rooms for student collaboration and offices for business and teacher education faculty. It features an outdoor patio, a coffee bar and a technology enhanced boardroom.

Escalante Hall (2014) The nearly 76,000-square-foot building is home to state-of-the-art classrooms, four computer labs, one open lab, several lecture style classrooms, numerous smaller seminar rooms, two television studios and offices for language, literature and mass communication faculty and staff. A state-of-the-art television production studio is part of the mass communication facilities. Escalante Hall is also home to KRMJ-TV, the Grand Junction affiliate of Rocky Mountain PBS.

The Fine Arts Building (2002) provides studio laboratories, offices and classrooms for studio art and graphic design. This facility has a large covered outdoor work area for ceramics kilns and a bronze foundry. The building design allows viewing of the studio activities from the hallways.

Health Sciences (2014, 2017), located on the north end of the Grand Junction campus, this building was once the home of Community Hospital. The building has been remodeled and now houses classrooms, a simulation center and laboratory space for health science students.

Houston Hall (1940, 2011) is the first permanent building constructed on CMU’s main campus. It was renovated and expanded in 2010-2011 and includes classrooms and computer laboratories where a variety of subject areas are taught including humanities and the social and behavioral sciences.

Little Mavericks Learning Center (2018), 1704 North Avenue, is a newly acquired an renovated facility that was previously a church-affiliated K-8 school. The Little Mavericks Learning Center (2010) offers childcare to Colorado Mesa University students, faculty, and staff.

Lowell Heiny Hall (1967) is a four-level building housing faculty and administrative offices remodeled in 1986-87. The garden level/first floor is home to IRIS (Integrated Resources for Information and Solutions), a hub for student services that includes the Registrar’s and Financial Aid offices. The west side of the building features the Gordon Gilbert Amphitheater (dedicated 2009), an outdoor gathering/classroom space.

The Maverick Center (2009) houses the Department of Kinesiology, intercollegiate athletics and campus recreation facilities. Included in the Maverick Center are the:

- El Pomar Natatorium - One of the premier aquatic facilities in the western United States, it features a 50-meter competition pool that is ten lanes wide and eight feet deep with two movable bulkheads. The diving well includes a pair of one- and three-meter boards. The natatorium also features water agitators and 3M sparger, a state-of-the-art Colorado Time Systems with speedlights and aqua-grip touch pads, Paragon sand top starting platforms with quickset anchors, a 21-foot by 10-foot digital display system, 22 loudspeakers that surround the pool and 750 permanent balcony seats.
- Hamilton Recreation Center - It includes a large fitness/strength training area equipped with weights and cardiovascular machines, a recreation gymnasium for intramural and club sports, two championship racquetball/wallyball courts, an indoor track and a 38-foot high climbing wall. The center was expanded in 2014.
- Monfort Family Human Performance Lab - An integrative multi-use laboratory that features state-of-the-art equipment and provides...
advanced physiological and biomechanical performance and wellness testing for students, faculty, staff and community members.

- Roe F. Saunders Field House - Originally constructed in 1968 and expanded in 1996, it provides facilities for a variety of physical education and recreation activities and includes Brownson Arena, a 2000-seat arena that surrounds the Wayne Nelson Court and is home to Colorado Mesa University's basketball, volleyball and wrestling teams.

The north end of the Maverick Center complex includes the Elliott Tennis Complex and Walker Field Stadium, home to Maverick tennis, soccer, and lacrosse. Immediately west of the complex are physical education and practice athletic fields, the Bus Bergman Field, and the Softball Stadium.

Maverick Pavilion (2014) hosts numerous indoor sport activities throughout the year and includes the Chamberlin Cycling Center and a 38-foot climbing wall.

The Moss Performing Arts Center (2002, 2009) is home to performance venues, classrooms, choral and instrumental rehearsal rooms, dressing rooms, and offices. It features the Walter Walker Lobby (originally built in 1969); the 605-seat William S. Robinson Theatre with fly loft and modern drama lighting systems; the smaller, more intimate Mesa Experimental Theatre; and the 300-seat Love Recital Hall. A three-story addition to the south end includes a scene shop, a costume shop, and a dance studio.


The John U. Tomlinson Library (1986, 2015) expands the traditional library concept to include physical and electronic holdings and circulation of 365,000 library materials that are available in a variety of formats. About 23,000 journal titles are available via the library website and more than 20 million items are available through Prospector.

Wubben Hall and Science Center (1962, 2010) contains classrooms, laboratories, offices and storage areas for physical and life sciences, mathematics and computer sciences. A special feature is the Weldon Lecture Hall that seats 100 persons. This building was completely remodeled in 1998 and connected to the Science Center. In 2010, a three-story, 31,900 square-feet addition to the west of the existing facility expanded classroom and research space for the university's science programs. The Science Center (1996, 2010) contains modern laboratories for biology, chemistry, geology and environmental sciences. This building also contains an electron microscopy laboratory and an herbarium. A special feature is the octagonal Saccomanno Lecture Hall that seats 120 persons and has full multimedia capabilities. An attractive courtyard between this building and Wubben Hall provides space for outdoor lectures and study. There is also a rooftop greenhouse that houses tropical vegetation for biology students to study.

### Administrative Buildings

The Admissions Welcome Center (2008) houses offices for admissions staff responsible for assisting students with a smooth transition into their higher education experience. The Welcome Center offers multimedia meeting spaces for visitation programs and campus tours.

The Outdoor Program (OP) office (2018) is Colorado Mesa University's headquarters for outdoor adventure and education. Located next to the Residence Life office, the OP office offers a gathering space and provides equipment rentals for biking, boating, camping, mountaineering, rock climbing, skiing, snowboarding and more.

Residence Life (2008), located directly across from the Admission Welcome Center and next to the Outdoor Program (OP), houses staff responsible for the on-campus living experience. In addition to providing educational events and activities, Residence Life helps to create safe, positive communities; offers leadership opportunities; and manages student behavioral concerns.

The Kerry Youngblood Building (1992), located on the Bishop campus, houses WCCC administrative offices and classrooms and laboratories for automotive and diesel technology, welding, process systems technology and technology integration.

### Residence Halls

**Bunting Hall (2011)** is a co-ed, suite-style building that can accommodate up to 328 students. The building offers suites with standard double rooms, lofted doubles, singles, super single rooms.

**Garfield Hall (2013, 2014, 2015)** is a traditional style residence hall that offers accommodations for 435 residents in double bedrooms. Each floor boasts three lounges and a community kitchen.

**Grand Mesa Hall (2006)** houses 286 residents in suites with a mixture of single, super single and double bedrooms. Each suite has at least two bathrooms with separate counter and sink facilities. Suites are furnished with "bunkable" beds and movable furniture. The living area in each suite has comfortable seating and a 32" flat screen, wall-mounted television.

**Monument Hall (1997)** provides suite-style living and is designated as our Substance Free Hall. Students who request to live in Monument must sign a contract pledging to be substance free on and off campus. Monument Hall houses 180 residents in suites that share a bathroom. Each double-bedroom room is furnished with carpet and moveable furniture.

**Lucero Hall (2009)** is configured in five or six-bedroom suites in the east wing and six-bedroom apartments in the north wing, and houses 299 residents.

**Orchard Avenue Apartments (2012)** offers fully furnished, three and six-person apartments for 185 students. Most apartments include individual balconies as well as large community rooms and balconies on each floor.

**Piñon Hall (1967, 2015)** was fully renovated in 2015, and houses 148 residents who have a strong interest in the Maverick Innovation Center. The Center is on the first floor of Piñon and open to business, computer science, engineering and physical science students and others who have a strong desire to bring their ideas to light! Piñon Residence will become the living space for many of these innovative students.

**Rait Hall (1966) and Tolman Hall (1966)** provide comfortable living quarters for 200 residents in each hall. Most rooms are doubles, but a few single rooms are available.

**Walnut Ridge Apartments (1978)** are furnished three- and four-bedroom apartments available to 120 sophomores, juniors, and seniors. Kitchen and bathrooms were renovated in 2017.

**Wingate Hall (2016)** is a traditional style residence housing 148 first- or second-year students who have a strong focus on academics. Each suite of two rooms features a lofted study room for the four residents. Community kitchens, bathrooms, study lounges, TV lounges and laundry are on each floor.
Community and Outdoor Spaces

The **University Center (2010)** is a two-story, 100,000 square-foot building and four-level parking structure that serves as the hub of campus life.

The facility features retail food service options that include a convenience store; Starbucks®; Chick-fil-A® and the main dining hall. It also houses an activity lounge for electronic gaming, pool tables, large screen TVs and The Point, a student-run pub. On the first floor you will also find the MAVcard Office, Career Services and the Information Desk/Parking Services customer service area.

The center's second floor houses offices for The Criterion newspaper, KMSA 91.3FM radio, the Campus Design Studio and the Student Life offices. It includes office and meeting spaces for Associated Student Government, Programming Activities Council, Club Advisory Board and the Cultural Diversity Board. The building also features the Meyer Ballroom, six meeting rooms and a large south-facing terrace.

The **Academic Quad** is the quadrangle surrounded by Wubben Hall to the north, Moss Performing Arts Center to the east, Houston Hall to the south, and Tomlinson Library to the west. Throughout the year it is used as one of the campus’ major corridors and as an outdoor meeting space for various campus events and activities.

The **Elm Avenue Quad** sits between Monument Hall, the Admissions Welcome Center, and Albers Hall. This space is used for many student activities throughout the year including the Homecoming bonfire, Piñon Palooza, and some all-campus barbecues. Students are regularly found here playing Frisbee, tossing a football, or socializing. The quadrangle/pedestrian mall features “Where Rivers Meet” (2006), a fountain that seeks to portray the Grand Valley’s history, geography and the legacy of the junction of the Colorado and Gunnison rivers.

**Delta Field** is located in front of the Fine Arts Building. The space is used throughout the year for various campus activities and contains expansive fields for intramural and club sports.

The **Plaza (2014)** the central, ellipse-shaped open space in the heart of campus is bound on four sides by the University Center, Monument Hall, Escalante Hall and Dominguez Hall. It provides a venue for large-scale productions, events and recreational activities.
DEGREES AND PROGRAMS OF STUDY

Colorado Mesa University offers programs leading to awards in four levels - certificates (graduate, professional, and technical), associate degrees, baccalaureate degrees, and at the graduate degree level (e.g., master’s and doctoral degrees).

General requirements for each degree and certificate program are listed in the graduation requirements sections of this catalog and in program descriptions found under Areas of Study (p. 130). While these general requirements are as correct and current as possible, some changes may occur as programs are updated.

Graduate degrees offered:
• Master of Arts (MA) in Education
• Master of Business Administration (MBA)
• Master of Science in Nursing (MSN)
• Doctor of Nursing Practice (DNP)

Baccalaureate degrees offered:
• Bachelor of Applied Science (BAS)
• Bachelor of Arts (BA)
• Bachelor of Business Administration (BBA)
• Bachelor of Fine Arts (BFA)
• Bachelor of Music (BM)
• Bachelor of Music Education (BME)
• Bachelor of Science (BS)
• Bachelor of Science in Nursing (BSN)
• Bachelor of Social Work (BSW)

These are programs of study that generally consist of 120 or more credit hours and provide extensive preparation in a specific major. Concentrations are available within many of the baccalaureate degrees.

Engineering: Through a partnership with the University of Colorado Boulder, students can complete a Bachelor of Science in Mechanical or Civil Engineering from the University of Colorado Boulder on the Colorado Mesa University campus.

Pre-Health Science Preparation: Admission to the study of dentistry, medicine, optometry, physical therapy, and veterinary medicine usually requires the completion of a baccalaureate degree, often in biological sciences. Students planning to enter one of these health fields should declare a major in one of the sciences after consultation with a faculty advisor.

Associate degrees are awarded in two broad areas:
• Associate of Arts or Associate of Science (AA, AS) degrees are available in a number of emphases at Colorado Mesa University. Students enrolling in these degrees may be preparing for immediate employment upon graduation or they may expect the two-year degree to be the first phase toward a baccalaureate degree. All AA and AS degrees include the statewide common core of general education curriculum and, when completed successfully, meet the lower-division essential learning requirements of most baccalaureate degree programs.
• Associate of Applied Science (AAS) degrees are offered in a variety of technical and vocational programs. AAS programs average two years in length.

Certificates are awarded in three categories:
• Graduate Certificates contain graduate level (5xx-7xx) courses. A student must be admitted as a graduate student to attempt a graduate certificate.
• Professional Certificates are comprised of primarily upper division (3xx-4xx) courses. For a student to attempt a Professional Certificate after the student has earned a baccalaureate degree, the student must be admitted to study as a post-baccalaureate student or as a graduate student.
• Technical Certificates are normally chosen by students whose immediate plans are a career in a technical area. They are comprised of lower division (1xx-2xx) courses. While the length may vary, these programs are usually one-year long and are designed to train for specific skills required for employment.

Non-Credit Continuing Education Courses
Non-credit continuing education courses toward personal, civic, vocational, and professional self-improvement are offered through the University’s Continuing Education Program (https://coloradomesa.edu/distance-education/extended-studies).
OVERVIEW OF COLORADO MESA UNIVERSITY

History
The founding of Grand Junction Junior College in 1925, with 39 students enrolled in seven classes, marked the beginning of post-secondary education on Colorado’s Western Slope. As Mesa Junior College, the number of students grew to 270 by fall 1937; headcount increased to 1,300 by 1963. Over that period, the range of community college programs expanded, and an area vocational school was added in 1967. By 1974, the college had evolved into a baccalaureate-granting institution, leading enrollment to triple in 16 years and reach 3,891 in fall 1979. In 1988, the College was renamed Mesa State College and in 1992 the Colorado legislature authorized Mesa State College to offer selected graduate degrees in response to regional needs.

With the addition of graduate programs, Mesa State College became the only four-year institution in Colorado to offer a full-range of undergraduate programming that spans technical certificates, associate degrees (both academic and vocational), and baccalaureate degrees to graduate certificates and degrees.

In 2002, Mesa State College was statutorily assigned the responsibility of meeting the educational needs for 14 Western Slope counties: Delta, Eagle, Garfield, Grand, Jackson, Mesa, Moffat, Montrose, Ouray, Pitkin, Rio Blanco, Routt, San Miguel and Summit.

In 2005, Mesa State College formally created a two-year, open admission division: Western Colorado Community College.

The role and mission of the institution was reenacted in 2010 by the Colorado General Assembly (Colorado Revised Statutes 23-53-101) and amended in 2011 when Mesa State College was renamed Colorado Mesa University. After a 2012 amendment, the role & mission is:

There is hereby established a university at Grand Junction, to be known as Colorado Mesa University, which shall be a general baccalaureate and graduate institution with selective admission standards. Colorado Mesa University shall offer liberal arts and sciences, professional, and technical degree programs and a limited number of graduate programs. Colorado Mesa University shall also maintain a community college role and mission, including career and technical education programs. Colorado Mesa University shall receive resident credit for two-year course offerings in its commission-approved service area. Colorado Mesa University shall also serve as a regional education provider.

Mission, Vision and Values
Institutional Mission Statement
Committed to a personal approach, Colorado Mesa University is a dynamic learning environment that offers abundant opportunities for students and the larger community to grow intellectually, professionally, and personally. By celebrating exceptional teaching, academic excellence, scholarly and creative activities, and by encouraging diversity, critical thinking, and social responsibility, CMU advances the common good of Colorado and beyond.

Institutional Vision and Values
It is the year 2020 and Colorado Mesa University has continued to mature into an institution of higher education that successfully prepares students from diverse backgrounds for lives of career and service anywhere in the world. Over the next decade, Colorado Mesa University will seek to be the first choice institution for students, faculty, and staff.

To achieve this vision Colorado Mesa University will leverage:

- An adaptable, flexible approach to learning that allows students to choose from multiple and potentially integrated pathways to achieve certification, associates, bachelors, and graduate degrees.
- A highly qualified faculty that excels in teaching and interacting with students.
- A curriculum, often bridging liberal education and professional programs, that successfully prepares students for the 21st century in the areas of personal and social responsibility, civic engagement, ethics, and intercultural/ global learning.
- Continued investment in facilities and technology that expand, expedite, and enhance learning for every student.
- Community support from businesses, industries, alumni, and residents of the region.
- A wide array of academic programs that are improved on an on-going, continuous basis for quality and relevance to Western Colorado’s needs in the context of an ever-changing world.
- An administration that uses human and natural resources wisely, embraces excellence, is committed to shared governance, and is focused on the future.

Colorado Mesa University in 2020 will be respected as a learning community that embraces diversity of students, faculty, staff, ideas, and degree levels, while maintaining a quality educational environment that focuses on serving its many constituents. As it assumes an expanded leadership role, CMU will expand its public engagement of the region’s stakeholders by serving as the primary intellectual and cultural center and promoting the exchange of ideas that are of regional, national, and international importance.

Colorado Mesa University values:

- high quality education in a student-centered environment;
- small class sizes and a high level of student/faculty interaction;
- a learning environment that develops and promotes the skills of inquiry, reflection, critical thinking, problem-solving, innovation, teamwork, and communication in students;
- student choice in academic programming that prepares future leaders to function as productive and responsible members of a global society;
- opportunities that engage students in applied learning;
- a faculty recognized for their professional expertise and quality of instruction;
- a staff committed to the highest quality of service to the College community;
- an attainable, accessible post-secondary experience for students in and outside of Western Colorado that emphasizes continuous improvement;
- a vibrant and varied campus setting that values diversity and diverse activities, and encourages involvement and interaction outside the classroom;
- a culture committed to integrity and academic and intellectual freedom;
- a community and region that supports the College in multiple ways;
• state-of-the-art facilities and technologies that enhance the learning environment; and
• a diversity of students, faculty, staff that promotes a balanced exchange of ideas.

Accreditation

Colorado Mesa University is accredited by and a member of The Higher Learning Commission:

http://higherlearningcommission.org or
230 South LaSalle Street, Suite 7-500
Chicago, IL 60604-1413
800.621.7440
312.263.0456
info@hlcommission.org

Various programs at Colorado Mesa University are accredited and/or approved by appropriate state and national agencies:

• Athletic Training: The Athletic Training Program at Colorado Mesa University is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). The program has been placed on probation as of February 24, 2017, by the:

  CAATE
  6850 Austin Center Blvd., Ste. 100
  Austin, TX 78731-3101.

  The Athletic Training Program is voluntarily withdrawing its accreditation effective May 2019. It is the intent of the university to develop a graduate athletic training program beginning as early as Fall 2019. More information will be posted on the CMU website as it becomes available. This new graduate program will be designed in accordance with the State of Colorado Department of Regulatory Agencies (DORA), the Board of Certification (BOC), and the CAATE.


• Mechanical Engineering Technology: ABET Engineering Technology Accreditation Commission

• Medical Laboratory Technician: National Accrediting Agency for Clinical Laboratory Sciences.

• Music: National Association of Schools of Music.

• Nursing: Commission on Collegiate Nursing Education (graduate level and baccalaureate). Accreditation Commission for Education in Nursing (certificate level). Colorado Mesa University is also approved by the Colorado State Board of Nursing to prepare nurses for licensure application.

• Peace Officer Standards and Training (POST): Approved by the Colorado Peace Officer Standards and Training Board.

• Radiologic Technology: Joint Review Committee on Education in Radiologic Technology.

• Social Work: Commission on Accreditation-Council on Social Work Education.

• Teacher Education: Approved by the Colorado Department of Higher Education and the Colorado Department of Education to prepare teachers for licensure application.

• Transportation Services (at WCCC): National Automotive Technicians Education Foundation.

Note: The Mechanical Engineering program, offered through the partnership program between Colorado Mesa University and the University of Colorado Boulder, is accredited by Accreditation Board for Engineering and Technology (ABET).

The University is designated as balanced arts and sciences/professions, some graduate coexistence as part of the Carnegie classification of higher education institutions.

Auxiliary Campuses

Montrose Campus

The Montrose Campus of CMU provides the Western Slope’s second largest community local access to postsecondary education. For local students pursuing a bachelor’s degree, it offers a convenient location to complete general education courses before attending the main campus to take courses in their major. For students who want to complete their education in Montrose, the campus offers several associate degree and certificate programs and a bachelor’s degree program in nursing for students who have a LPN.

To meet the needs of high school graduates and adult working students, classes occur primarily in the afternoons and evenings. Seating in classrooms are limited to no more than 30 students to ensure students receive personal attention from their instructors.

The campus is adjacent to the Montrose Regional Library. Facilities include classrooms with advanced instructional technology, computer labs and study lounges. The campus has a career and technical facility for welding, machining technology and other programs.

Admissions, advising and student services staff are available in the Bransome Center, open from 8 a.m. to 7 p.m., Monday through Thursday, and until 5 p.m. on Friday. Services include admissions counseling, orientation, academic advising, financial aid, course registration, testing services, career counseling, and tutoring. Future and current students can make an advising appointment in advance by calling 970.249.7009.

Visit the CMU Montrose website for more information about the academic programs available at the Montrose campus.

Tilman M. Bishop Campus

The Tilman M. Bishop Campus of Colorado Mesa University is the result of a partnership of the University, Mesa County Valley School District 51, and area businesses. The applied technology programs at the Bishop Campus serve the technical education needs of both university and area high school students, primarily those in District 51.

Students at the Bishop Campus—the main site of Western Colorado Community College, Colorado Mesa University’s two-year division—can earn two-year associate degrees or technical certificates. High school students can earn university credits through concurrent enrollment. Among the services available at the Bishop campus are college admission, class scheduling, academic and interest assessments, resume preparation, job interviewing skills, and placement in internships and jobs. For more information call 970.255.2670 or toll free, 888.465.2617.

Diversity Statement

Colorado Mesa University extends its services to anyone regardless of age, race, color, national origin, religion, sex, disability, veteran status, or sexual orientation.
Following is the statement of philosophy on diversity which has been adopted by the faculty at Colorado Mesa University:

“Colorado Mesa University is a community of scholars in the liberal arts tradition. As faculty we believe that all people, regardless of age, race, color, national origin, religion, sex, disability, veteran status, or sexual orientation, have something worthwhile to contribute and that these contributions benefit us all. Therefore, we intend that within our academic community all cultural differences will be treated with equal respect and tolerance. We desire that our students have the opportunity to appreciate the diversity of our modern world, and we encourage them to partake of the resources available within our community. As faculty we pledge ourselves to provide as many divergent cultural experiences for our students as the resources of the college and the needs of our disciplines allow.”

“To further tolerance and appreciation of our society’s diversity, Colorado Mesa University requires that all graduates fulfill General Education requirements. In doing so we honor the validity of a liberal education. We hope that the experience will help our students understand how to appreciate the true diversity of the world. Because diversity promotes multiple opinions, techniques, viewpoints and approaches, it is not the individual courses within the General Education program which we believe will further the above-stated goals, but the whole experience of the program itself.”

Colorado Mesa University expects all members of the campus community to uphold the highest standards of civil and ethical conduct and to promote a culture of respect and inclusiveness. For more information on these expectations, review the Resolution Concerning Expectations Regarding Safety, Violence, Intimidation, Abuse and Discrimination at Colorado Mesa University (https://www.coloradomesa.edu/trustees/documents/SafetyResolution.pdf).

Student Bill of Rights
The Colorado General Assembly implemented the Student Bill of Rights to assure that students enrolled in public institutions of higher education have the following rights:

1. A quality general education experience that develops competencies in reading, writing, mathematics, technology and critical thinking through an integrated arts and science experience;
2. Students should be able to complete their associate of arts and associate of science degree programs in no more than sixty credit hours or their baccalaureate programs in no more than one hundred twenty credit hours, unless there are additional degree requirements recognized by the commission;
3. A student can sign a two-year or four-year graduation agreement that formalizes a plan for the student to obtain a degree in two or four years, unless there are additional degree requirements recognized by the commission;
4. Students have a right to clear and concise information concerning which courses must be completed successfully to complete their degrees;
5. Students have a right to know which courses are transferable among the state public two-year and four-year institutions of higher education;
6. Students, upon successful completion of core general education courses, should have those courses satisfy the core course requirements of all Colorado public institutions of higher education;
7. Students have a right to know if courses from one or more public higher education institutions satisfy the students’ graduation requirements;
8. A student’s credit for the completion of the core requirements and core courses shall not expire for ten years from the date of initial enrollment and shall be transferable.
# ACADEMIC CALENDAR

## 2018-2019 Academic Calendar

### Summer Semester 2018

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 14</td>
<td>First day of classes for First (4-week) Session</td>
</tr>
<tr>
<td>May 28</td>
<td>Memorial Day observance – No Classes</td>
</tr>
<tr>
<td>June 7</td>
<td>Final exams and last day of May session</td>
</tr>
<tr>
<td>June 11</td>
<td>First day of classes for Second (4-week) and 7-week Sessions</td>
</tr>
<tr>
<td>July 4</td>
<td>Independence Day Holiday – No Classes</td>
</tr>
<tr>
<td>July 5</td>
<td>Final exams and last day of June (4-week) Session</td>
</tr>
<tr>
<td>July 9</td>
<td>First day of classes for Third (3-week) Session</td>
</tr>
<tr>
<td>July 26</td>
<td>Final examinations for Third (3-week) and 7-week Sessions</td>
</tr>
<tr>
<td>July 26</td>
<td>Summer Sessions end</td>
</tr>
</tbody>
</table>

### Fall Semester 2018

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>August 6</td>
<td>Residency petitions due to Tuition Classification Officer (Admissions Office)</td>
</tr>
<tr>
<td>August 20</td>
<td>First day of classes</td>
</tr>
<tr>
<td>September 4</td>
<td>Last day to add or drop a full semester class</td>
</tr>
<tr>
<td>September 4</td>
<td>Fall census – date after which credit hours are counted in COF attempted hours</td>
</tr>
<tr>
<td>September 10</td>
<td>Late Start session begins</td>
</tr>
<tr>
<td>October 1</td>
<td>Deadline for filing Intent to Graduate Form with Registrar’s Office for fall graduates</td>
</tr>
<tr>
<td>October 12</td>
<td>Fall Break – No Classes</td>
</tr>
<tr>
<td>October 15</td>
<td>Second module classes begin</td>
</tr>
<tr>
<td>October 17</td>
<td>Last day to withdraw from full semester classes with a grade of “W”</td>
</tr>
<tr>
<td>October 29</td>
<td>Priority registration for spring 2018 begins</td>
</tr>
<tr>
<td>November 17-25</td>
<td>Thanksgiving Holiday – No Classes</td>
</tr>
<tr>
<td>December 10-13</td>
<td>Final examinations</td>
</tr>
<tr>
<td>December 13</td>
<td>Fall semester ends</td>
</tr>
<tr>
<td>December 14</td>
<td>Commencement</td>
</tr>
</tbody>
</table>

### Spring Semester 2019 (including January Term)

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 2</td>
<td>Residency petitions due to Tuition Classification Officer (Admissions Office)</td>
</tr>
<tr>
<td>January 21</td>
<td>Martin Luther King, Jr. Day – No Classes</td>
</tr>
<tr>
<td>January 22</td>
<td>First day of classes</td>
</tr>
<tr>
<td>February 6</td>
<td>Last day to add or drop a full semester class</td>
</tr>
<tr>
<td>February 6</td>
<td>Spring census – date after which credit hours are counted in COF attempted hours</td>
</tr>
<tr>
<td>February 11</td>
<td>Late Start session begins</td>
</tr>
<tr>
<td>March 1</td>
<td>Deadline for filing Intent to Graduate Form with Registrar’s Office for fall graduates</td>
</tr>
<tr>
<td>March 16-24</td>
<td>Spring Break – No Classes</td>
</tr>
<tr>
<td>March 25</td>
<td>Second module classes begin</td>
</tr>
<tr>
<td>March 27</td>
<td>Last day to withdraw from full semester classes with a grade of “W”</td>
</tr>
<tr>
<td>April 1</td>
<td>Priority registration for summer and fall 2018 begins</td>
</tr>
<tr>
<td>May 13-16</td>
<td>Final examinations</td>
</tr>
<tr>
<td>May 16</td>
<td>Spring semester ends</td>
</tr>
<tr>
<td>May 18</td>
<td>Commencement</td>
</tr>
</tbody>
</table>
POLICY STATEMENTS

General Policy Statement

Colorado Mesa University is a comprehensive coeducational institution operated under the governance of the Board of Trustees of Colorado Mesa University. The programs, policies, statements, and procedures contained in this catalog are subject to change by the University without prior notice. Colorado Mesa University reserves the right to, at any time, withdraw courses or modify the rules, calendar, curriculum, graduation procedures, and any other requirements affecting students. While the information contained in this catalog is current and correct insofar as possible at the time of publication, students are advised to check with appropriate University officials and online program sheets for up-to-date information.

This catalog is intended for the guidance of students and faculty but does not constitute a guarantee that all courses listed will actually be offered during any particular academic year. Colorado Mesa University reserves the right to withdraw or add courses prior to the beginning of any semester or summer term. In some programs, certain courses may be offered on an alternate-year basis or as determined by apparent demand. All program offerings are contingent upon adequate appropriations by the Colorado General Assembly.

Colorado Mesa University is committed to providing admission or access to, or treatment or employment in, its educational endeavors, consonant with applicable laws and without regard to race, creed, color, religion, sex, disability, age, national origin, veteran status, marital status, sexual orientation or gender identification.

Inquiries may be made to the Affirmative Action Officer, Human Resources Office, Lowell Heiny Hall, Room 237.

Colorado Mesa University is a Drug-Free Workplace. All employees and students of the University agree to abide by the requirements in the Federal Drug-Free Workplace Act and the policies stated in the brochure entitled Drug-Free Schools, Campuses and Workplaces Drug Use and Alcohol Abuse Prevention Program. All employees and students are provided copies.

As required by the Campus Security Act, Colorado Mesa University publishes campus safety policies and statistics annually. Copies of the annual report are available at coloradomesa.edu/security/index.html.

FERPA Policy Statement

The Family Educational Rights and Privacy Act (FERPA) provides students who are enrolled in an institution of postsecondary education the right to inspect, review, and challenge their educational records. Colorado Mesa University has the responsibility of maintaining and protecting the confidentiality of students’ official educational records. Colorado Mesa University also supervises the access to and/or release of educational records of its students.

FERPA covers enrolled and former students, including those who are deceased. Students who are not accepted to Colorado Mesa University, or if accepted, do not attend, have no rights under FERPA. In addition, the University will not release personally identifiable records of students to any individual, agency or organization without the prior written consent of the student, except as provided by FERPA. For further information related to FERPA, see the Registration section of this catalog.
UNDERGRADUATE ADMISSION INFORMATION

- Undergraduate Admission Procedures for Degree-Seeking Students (p. 31)
  - Admission of First-time Freshmen (p. 31)
  - Admission of Transfer Students (p. 32)
  - Admission of International Students (p. 33)
  - Admission of Returning Students (p. 33)
  - Baccalaureate Admission Requirements (p. 33)
  - Admission to Specific Undergraduate Programs (p. 34)
- Undergraduate Admission Procedures for Non-Degree Seeking Students (p. 35)
- Colorado Public Higher Education Admission Requirements (HEAR) (p. 36)
  - Admission Decisions (p. 37)
  - Acceptance of Transfer and Alternative Credits (p. 38)
  - Immunization Policy for Measles, Mumps, and Rubella (p. 39)
  - Selective Service (p. 40)
  - Veterans (p. 41)
  - Concurrently Enrolled High School Students (p. 42)
  - Residency Status for Tuition Purposes (p. 44)
  - Confirmation of Attendance (p. 45)
  - Undergraduate Admission Assessment and Counseling Tests (p. 46)
  - Acceleration of University Study (p. 47)
  - New Student Orientation (p. 48)
  - Stampede Welcome Week (p. 49)
  - Academic Transition Courses (p. 50)
**UNDERGRADUATE ADMISSION PROCEDURES FOR DEGREE-SEEKING STUDENTS**

**How to Apply**

To be considered for admission, undergraduate applicants should:

1. Submit the Application for Undergraduate Admission along with a $30 non-refundable application processing fee or fee waiver documentation.

   Prospective students are highly encouraged to submit applications electronically via Apply to CMU (https://www.coloradomesa.edu/admissions/apply.html). Upon receipt of a completed admissions application and supporting documentation, applicants will be notified of their admissions status via the mail and by email.

   Students may submit their application for the following terms as early as:
   - Spring semester 2019: May 1, 2018
   - Summer semester 2019: August 1, 2018
   - Fall semester 2019: August 1, 2018

2. Submit the appropriate supporting documentation, as outlined in the table on the following page, directly to:

   Colorado Mesa University
   Admissions Office
   1100 North Avenue
   Grand Junction CO 81501-3122.

   Letters of recommendation and a personal essay are optional and should be submitted to the Admissions Office.

   Students who do not submit ACT or SAT test scores can be considered for admission into the two-year division of Colorado Mesa University, Western Colorado Community College. If the ACT or SAT is more than three years old, or no ACT or SAT is submitted, the student will be required to complete the ACCUPLACER assessment for math, reading and English placement. Acceptable ACCUPLACER scores cannot be more than three years old. ACCUPLACER is administered by the university's Testing Center. For questions regarding ACCUPLACER, please call the Testing Center, 970.248.1260. If you feel your placement does not reflect your skill level, contact IRIS at iris@coloradomesa.edu, 970.248.1177, or LHH 127. For more information on placement policy and options, visit Pre-Orientaion-Testing (https://www.coloradomesa.edu/testing/pre-orientation-testing).

   For more information about admissions requirements, please also visit the admissions information page most applicable to the student's application status:

   - Admission of First-time Freshmen (p. 31)
   - Admission of Transfer Students (p. 32)
   - Admission of International Students (p. 33)
   - Admission of Returning Students (p. 33)
   - Baccalaureate Admission Requirements (p. 33)
   - Admission to Specific Undergraduate Programs (p. 34)

**Home-schooled**

Students should provide a transcript evaluation form (available in the Admissions Office) or a transcript of all courses taken at the high school level. Students should submit transcripts of any courses taken at a traditional high school and may also submit a portfolio to describe their high school education.

**Transfer**

Students who intend to transfer to Colorado Mesa University should contact the Center for Transfer Services, within the Admissions Office, for help with the admissions and evaluation processes. Transfer students may be admitted into most baccalaureate degree programs if they are in good standing at another regionally accredited college or university and have a total minimum cumulative grade point average (GPA) of 2.4 for 24 or more college-level semester credit hours. In calculating the cumulative admission grade point average, Colorado Mesa University will compute a transfer GPA based on prior college transcript(s) including all college-level courses attempted, but excluding courses completed while in high school. If the student has attended more than one prior institution, the GPA of each is combined for a total cumulative admission GPA. For students seeking a baccalaureate degree, with less than 24 transfer credit hours, it is recommended they meet HEAR requirements as outlined in the HEAR section (p. 36) of this catalog.

Transfer students who are on probation or suspension from another college or university, or have a cumulative grade point average of less than 2.4, will not be admitted into a baccalaureate degree program but may enroll in Western Colorado Community College. Transfer students who are on probation or suspension from another college may be placed on probation at Colorado Mesa University.

An unofficial transcript may be accepted for a conditional admissions decision. Official transcripts must be submitted to the Admissions Office to be considered for full admission per Colorado state wide admissions policy. Failure to provide all official transcripts may result in a reversal of the conditional admissions decision. All official transcripts should be received no later than the midpoint of the first term of attendance. A registration hold will prohibit registration for future semesters and will be removed once all official transcripts are received. To be considered official, the transcript must be sent directly from the previous institution to Colorado Mesa University.

An official evaluation of transfer courses is made once the student is admitted. Credit evaluations are completed in the Registrar's Office, with the assistance of academic department heads.

Also see Admission of Transfer Students (p. 32) for more details.

**Admission of First-time Freshmen**

The table below provide guidance for first-time freshman applicants. To use these:

1. Select your applicant category in the far left row of the table.
2. Review the documentation requirements listed to the right of your applicant category. The row on the top indicates the documentation category, and the text in your applicant category row indicates whether or not these need to be submitted with your application.

If you are applying to transfer to CMU, please instead refer to Admission of Transfer Students (p. 32) for applicable information.
### Admission of Transfer Students

The tables below provide guidance for transfer student applicants. To use these:

1. Select the table that applies to the number of completed credit hours with a grade of "C" or higher that you plan to transfer to CMU.
2. Select your applicant category in the top row of the table.
3. Review the documentation requirements listed below your applicant category. The row on the far left indicates the documentation category, and the text below your applicant category indicates whether or not these need to be submitted with your application.

#### 0-23 Credit Hours

<table>
<thead>
<tr>
<th>Category</th>
<th>Four-Year Degree-Seeking</th>
<th>Two-Year Degree-Seeking (AA, AS)</th>
<th>Two-Year Degree-Seeking (AAS)</th>
<th>Certificate-Seeking</th>
<th>Non-Degree Seeking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Official High School Transcript</td>
<td>Required; sent directly to university from high school. High school grads &gt;= Spring 2008 must meet HEAR requirements</td>
<td>Required; sent directly to university from high school</td>
<td>Required; sent directly to university from high school</td>
<td>Required; sent directly to university from high school</td>
<td>None</td>
</tr>
<tr>
<td>Two-Year Degree-Seeking (AA, AS)</td>
<td>Required; sent directly to university from high school</td>
<td>Recommended; sent directly to university by testing organization</td>
<td>Required; sent directly to university from high school</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Two-Year Degree-Seeking (AAS)</td>
<td>Required; sent directly to university from high school</td>
<td>Recommended; sent directly to university by testing organization</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td>Certificate-Seeking</td>
<td>Required; sent directly to university from high school</td>
<td>Recommended but not required</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

1. Preliminary transcript will be accepted until final transcript is submitted; also applies to home-schooled students.
2. CMU will super score multiple test scores for admission and scholarship determination.
3. 92 or higher index score is required.
4. May be required for admission to selected programs; will be required for placement in essential learning courses.
5. Must become degree-seeking by no later than completion of 30 credit hours and complete high school diploma or GED.
6. Placement tests or prerequisites may be required.

Note: In addition to requirements shown above, some academic programs have additional admission requirements. Admission to Colorado Mesa University does not guarantee admission to those programs.

#### 24+ Credit Hours

<table>
<thead>
<tr>
<th>Category</th>
<th>Four-Year Degree-Seeking</th>
<th>Two-Year Degree-Seeking (AA, AS)</th>
<th>Two-Year Degree-Seeking (AAS)</th>
<th>Certificate-Seeking</th>
<th>Non-Degree Seeking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Official College Transcript</td>
<td>Required; sent directly to university from previously attended institution</td>
<td>Required; sent directly to university from previously attended institution</td>
<td>Required; sent directly to university from previously attended institution</td>
<td>Required; sent directly to university from previously attended institution</td>
<td>Not required</td>
</tr>
<tr>
<td>Standardized Test Scores</td>
<td>Recommended required</td>
<td>Recommended required</td>
<td>Required required</td>
<td>Required required</td>
<td>Not required</td>
</tr>
</tbody>
</table>

1. Must become degree-seeking by no later than completion of 30 credit hours and complete high school diploma or GED.
2. Include transcripts of college courses completed while still in high school.
3. 92 or higher index score is required.
4. May be required for admission to selected programs; will be required for placement in essential learning courses.

#### Transfer GPA

<table>
<thead>
<tr>
<th>Category</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Official</td>
<td>2.40</td>
</tr>
<tr>
<td>College</td>
<td>2.00</td>
</tr>
<tr>
<td>Transcript</td>
<td>No minimum</td>
</tr>
<tr>
<td>GPA</td>
<td>No minimum</td>
</tr>
<tr>
<td>Required</td>
<td>No minimum</td>
</tr>
<tr>
<td>Non-Degree Seeking</td>
<td>No minimum</td>
</tr>
</tbody>
</table>
Admission of International Students

To be considered for admission, students who have or will be seeking an F-1 international student visa must complete and submit the following items to the Colorado Mesa University International Student Admissions and Programs Office

1100 North Avenue
Grand Junction CO 81501-3122

Students are encouraged to apply by May 1 for fall semester and by September 1 for spring semester:

1. International Student Application with $30 non-refundable application fee;
2. Proof of English proficiency (see next section for details);
3. Official secondary school transcript (transcripts not issued in English must be accompanied by official English translations);
4. Official transcript(s) from all colleges or universities attended or an official copy of the professionally evaluated foreign transcript(s);
5. The CMU Notarized Statement(s) of Financial Support and official bank statement(s) showing proof of funds;
6. Copy of ACT or SAT scores (if taken);
7. For registration purposes, all international students are required to maintain health insurance. Students who do not already have coverage will be enrolled in CMU’s international student group insurance plan;
8. For registration purposes, all international students are required to comply with the Colorado law regarding the measles, mumps and rubella immunizations. A Colorado Mesa University official immunization form must be completed and returned to the Registrar’s Office.

English Proficiency Requirements:

Prospective international students who are seeking admission to Colorado Mesa University and whose primary language is not English, must provide documented evidence of the ability to read, write, speak, and understand the English language. This requirement may be fulfilled in one of the following ways:

1. Submission of TOEFL exam scores with a minimum average of 70 iBT/525 paper-based for undergraduate admission and 80 iBT/550 paper-based for graduate admission.
2. Submission of IELTS exam scores with a minimum of Band 6 for undergraduate admission and Band 7 for graduate admission.
3. Enroll and successfully complete an approved intensive English program. A program must be pre-approved by the CMU International Student Admissions and Program Office.

4. An international student who has been enrolled as a full-time student at a high school, college or university in the United States may request consideration of fulfillment of this requirement on an individual basis.

5. Other evidence will be considered on an individual basis.

Proof of Financial Funds Information:

Before admission is granted, an international student must provide proof of financial ability to meet the cost of tuition, fees, books, living accommodations, health insurance and incidental expenses for at least one full year.

Costs, additional information, and forms may be obtained from the International Students (https://www.coloradomesa.edu/admissions/requirements/international) website.

International Transfer Student Information

International transfer students with college credit from an institution outside the United States must provide the appropriate official, professionally evaluated transcript of courses (or grade reports, exam results, degree awards, etc., depending on the standard of the particular country) before transfer credit can be determined. Please see International Students (https://www.coloradomesa.edu/admissions/requirements/international) for more information on approved foreign transcript evaluation options. In most cases, course descriptions or syllabi are required to determine content of individual courses. Should a student decide to begin their degree from the beginning at CMU, a professionally evaluated transcript is not required.

Admission of Returning Students

Returning students (any student who has previously attended Colorado Mesa University and has been out for at least two semesters; summer and January terms excluded) must submit an online application to Apply to CMU (https://www.coloradomesa.edu/admissions/apply.html) by choosing the “Returning CMU Student” link. If the student has attended another institution since last attending Colorado Mesa University, official transcripts of all course work must be sent directly to Colorado Mesa University, Registrar’s Office, from each institution attended. Official transcripts must be submitted to continue enrollment at Colorado Mesa University. See “Applicable Catalog and Degree Requirements” in the Requirements for Degrees (p. 94) section to determine the catalog to be followed for graduation.

Students who are eligible to return after being on suspension must complete the Returning Student Application to be considered for re-admission. See the General Undergraduate Academic Policies (p. 86) section for more information on eligibility to return after academic suspension.

Baccalaureate Admission Requirements

First-year students who are admitted to Colorado Mesa University’s four-year division must meet a minimum index score of 92, as well as the HEAR requirements described in the previous section.

Baccalaureate seeking students with an index of 80-91 may be offered provisional admission provided that they follow a curriculum as
Admission to Specific Undergraduate Programs

tailored by an Academic Success Coach. Students may transition to a baccalaureate program once they complete 13-29 college-level credits at Colorado Mesa University and meet the Colorado Higher Education Admission Requirements (HEAR) (p. 36). In addition, provisional baccalaureate students must earn a grade of C or higher in UNIV 100 and UNIV 101, complete or be eligible to enroll in college-level English and math courses, and earn a 2.4 cumulative grade point average. An alternate pathway is to complete 30 credit hours, earn a grade of C or higher in UNIV 100 and UNIV 101, complete or be eligible to enroll in college-level English and math courses, and earn a 2.4 cumulative grade point average.

GOALS program

Greater Opportunity for Academic and Life Success (GOALS) is designed for students who do not meet CMU’s four-year acceptance index. Academically underprepared students (index scores below 80) may be admitted to Western Colorado Community College in GOALS and will take (UNIV 102), a semester-long course designed to provide students a career and/or college foundation. Students will focus on study skills, time management, research skills and career exploration.

GOALS is a one-year program. Successful students will complete 24 credits with a 2.4 grade-point, or the grade-point average required for entry in a four-year baccalaureate program. Students who do not meet that requirement may enroll in a certificate program, a two-year associate program or a two-year associate of applied sciences program.

Admission to Specific Undergraduate Programs

Some baccalaureate, associate, and certificate programs may have specific entrance requirements in addition to general university admittance. Admission to Colorado Mesa University does not guarantee admission into an academic or technical program. More information is available in this catalog in the Programs of Study section. Prospective students should check with the department head of the specific academic program for special requirements.

Admission to CMU/CU-Boulder Engineering Partnership Program

Students enter CMU as “pre-engineering” majors. They may apply to the Civil, Electrical/Computer, or Mechanical Engineering Partnership Program:

• After one year at CMU if they have completed a two course sequence in calculus and a two course sequence in physical science with As or Bs and have an overall GPA of 3.0 or better, or
• After completing all required lower-division coursework at CMU with a GPA of 3.0 or better

Interested students can learn more about the program and admission options at (http://coloradomesa.edu/engineering)CMU/CU-Boulder Engineering Partnership Programs (https://www.coloradomesa.edu/engineering/partnership-program).
UNDERGRADUATE ADMISSION PROCEDURES FOR NON-DEGREE SEEKING STUDENTS

Students who do not wish to pursue a degree or certificate at Colorado Mesa University may apply as non-degree seeking rather than being formally admitted to the university. This includes students who wish to enroll in Colorado Mesa University courses while away from their “home” institution, such as during summer and January terms.

Policies and guidelines include:

1. Applicants must complete the Colorado Mesa University Application for Undergraduate Admission, selecting the non-degree seeking student type, and submit it along with a non-refundable $30 application fee.
2. Students who do not wish to pursue a degree or certificate are not required to submit high school or college transcripts or test scores.
3. Non-degree seeking students are not eligible for financial aid or scholarships and will not be assigned an advisor.
4. Non-degree seeking students must consistently earn a minimum semester grade point average of 2.00 while enrolled at Colorado Mesa University.
5. Non-degree seeking students who earn 30 semester hours at Colorado Mesa University must apply for admission to Colorado Mesa University as a degree seeking student in order to continue taking classes at Colorado Mesa University.
6. Degree seeking students will have priority over non-degree seeking students regarding registration.
7. Non-degree seeking students are advised that courses taken during non-degree seeking status are counted against the state’s current allowance of 145 semester credit hours through the College Opportunity Fund (COF).

Non-degree seeking students have not been formally admitted to Colorado Mesa University and are not guaranteed admission should they later make formal application as degree seeking.

Once non-degree seeking students apply for degree seeking status at Colorado Mesa University, the admission policies in effect at the time of formal application will be used to determine admissibility into the university and general and/or specific academic programs. This includes satisfying all requirements for admission as summarized in the admissions table found earlier in this section.
COLORADO PUBLIC HIGHER EDUCATION ADMISSION REQUIREMENTS (HEAR)

The admissions policy of the Colorado Department of Higher Education (CDHE) recommends the completion of a precollegiate curriculum for admission to a four-year Colorado public college or university for students graduating from high school beginning 2008.

Transfer applicants with fewer than 24 college-level semester credit hours and students transferring within the same institution must also demonstrate academic preparation comparable to HEAR if they graduated from high school in 2008 or later. Such preparation can be demonstrated by completing the pre-collegiate curriculum in high school and/or by successfully completing (with a grade of C- or higher) a college-level course in each core area (English, mathematics, natural sciences, foreign language and social sciences) where the high school unit requirements have not been fulfilled.

For students who graduated in 2010, or later, high school course or unit requirements include:

- Four years of English
- Four years of mathematics (algebra I or higher)
- Three years of social studies (including one year of U.S. or world history)
- Three years of natural science (two of which are lab-based)
- Two years of academic electives
- One year of foreign language

Additional details are available from the CDHE website (https://highered.colorado.gov/academics/admissions).
ADMISSION DECISIONS

Students who are academically prepared may be admitted to either the university’s four-year or two-year divisions, according to the student’s degree intent. Admission to the university’s four-year division, however, does not guarantee acceptance of a student into a specific course or academic program (i.e., admission to the university does not imply entry into any program which has selective admission standards). Some students may be required to enroll in special courses for correction of academic or other deficiencies before further consideration is given.

Applicants applying for enrollment in Western Colorado Community College, Colorado Mesa University’s two-year division, are automatically admitted through the community college’s open admission policy. Students may later request transfer into a baccalaureate degree program after successfully completing a minimum of 24 college level semester credit hours and a cumulative grade point average of 2.4 or better or after earning an associate degree. Students with less than 25 college-level credit hours may also be subject to the Colorado Higher Education Admission Requirements (HEAR) (p. 36).

Any transfer student admitted to Colorado Mesa University on a probationary status must earn a minimum 2.00 GPA the first semester or be placed on academic suspension and will not be eligible to return to Colorado Mesa University as stated under the academic suspension guidelines.
ACCEPTANCE OF TRANSFER AND ALTERNATIVE CREDITS

It is the policy of Colorado Mesa University to accept academic credits from:

- All public colleges and universities in the state of Colorado, provided they are currently regionally accredited. This applies regardless of the institution's accreditation status at the time the credit was earned.
- Private and out-of-state colleges and universities, provided the institution is currently regionally accredited and was accredited or was a candidate for accreditation at the time the credit was earned.
- Regionally accredited two-year community or junior colleges.
- Regionally accredited institutions that award "S" or "P" grades, if the granting institution states that such grade is equal to a grade of "C" or better.
- Regional accrediting bodies are:
  - Middle States Association of Colleges and Schools
  - New England Association of Schools and Colleges
  - Northwestern Association of Schools and Colleges
  - North Central Association of Schools and Colleges
  - Southern Association of Schools and Colleges
  - Western Association of Schools and Colleges

- gtPathways, Colorado guaranteed general education transfer courses (see Catalog section on Colorado Department of Higher Education Statewide Guaranteed Transfer Courses).
- Colleges and universities outside of the United States, provided the institution maintains the equivalent of a regional accreditation and individual transcripts have been evaluated by World Education Services or another NACES-approved member.

To receive transfer credit, an official transcript must be sent directly from the institution that granted the credit to Colorado Mesa University Admissions or Registrar's Office. Only courses with a grade of "C" or better are eligible to be applied toward a degree or certificate.

Colorado Mesa University reserves the right to evaluate, on a course-by-course basis, any credits earned 15 years or more prior to enrollment. Initially, only courses used to fulfill essential learning requirements will be accepted in transfer. Other courses will be transferred upon acceptance by the department head within the major. Additional transfer information is available on the Transferring Credit web page (https://www.coloradomesa.edu/admissions/requirements/transfer/transferring-credit.html).

Alternative Credit

Alternative credit includes other methods, such as:

- Military Credit
- Advanced Placement (AP) and International Baccalaureate (IB) Exams
- College Level Examination Program (CLEP) and Dantes (DSST) Exams
- Credit for Prior Learning Portfolio

For military credit and exams, an official transcript must be sent from the source directly to the CMU Registrar's Office.

More detail on the credit and credit guidelines can be found in the Undergraduate Academic Policies (p. 86) section under “Non-Traditional Credit” section.

Other Transfer Credit Policies:

Technical credits: refer to the requirements for the Bachelor of Applied Science degree under Requirements for Undergraduate Degrees and Certificates (p. 93).

Transfer of final credits for degree completion: refer to the section on Final Credit Requirements Taken at Another University under Requirements for Undergraduate Degrees and Certificates (p. 93).

Graduate credits: refer to the section on Transfer Credit under Graduate Programs (p. 106).
IMMUNIZATION POLICY FOR MEASLES, MUMPS, AND RUBELLA

Colorado State Immunization Law states that effective July 1, 1992, all college students born since January 1, 1957 must have two (2) measles, two (2) mumps, and two (2) rubella doses. If the student received a second measles dose prior to July 1, 1992, the second mumps and rubella are not required.

Written evidence of titers (blood tests) showing immunity to measles, mumps, and rubella is acceptable. If the student completes an exemption form and an outbreak occurs, the student will be subject to exclusion from school.
SELECTIVE SERVICE

Any male student born on or after January 1, 1960 wishing to attend classes at Colorado Mesa University must attest to his registration or exemption from registration with the Selective Service. This testimony must be done prior to initial registration.
VETERANS

Programs offered by Colorado Mesa University, with certain exceptions, are approved by the Community College and Occupational Education System for the education and training of those veterans and dependents of veterans eligible under applicable public laws.

A veteran or dependent should work with the CMU Veteran Services Office:

• to verify a program of study’s eligibility for benefits prior to enrolling in the program.
• to complete the application process for veterans education benefits as soon as the decision to enroll is made. Each semester, the student must enroll in classes and submit all necessary documents. With advance application, the student may avoid needing to make other financial arrangements for payment of tuition and fees, books, supplies and living expenses until VA funds are received.
• to determine the correct documentation to gain transfer credit for military experience for veterans.
• when the service member or reservist is unable to attend class or must suspend their studies due to service requirements in order to comply with 34 C.F.R. Section 668.18.
CONCURRENTLY ENROLLED HIGH SCHOOL STUDENTS

Current enrolled high school students may register for college-level classes through four distinct programs as provided through the Concurrent Enrollment Act (CE).

Early Scholars Program
Through Western Colorado Community College's Early Scholars Program, high school students may access college-level courses not replicated in the high school curriculum through enrollment on a Colorado Mesa University campus.

High School Scholars Program
College-level courses are also taught at participating high schools by qualified and approved high school lecturers for academic programs at Colorado Mesa University.

Technical Scholars Program
Students enrolled in Western Colorado Community College's Career and Technical Education (CTE) high school program can earn college credits through the Technical Scholars program.

ASCENT Program
Students meeting program qualifications may also enroll through Colorado's ASCENT program if they have completed all high school graduation requirements, will have earned at least 12 college credit hours prior to high school completion, and agree to the special enrollment terms of the ASCENT Program.

Requirements to Participate
To participate in the Concurrent Enrollment Program, students must be currently enrolled in high school (public, private, or home-schooled) and meet all the following in order to be considered (Technical Scholars Program participants are exempt from the requirements below, but must meet other course competency requirements to earn college credit):

1. Minimum 3.0 cumulative GPA;
2. ACT English score of 18 or higher; or SAT verbal score of 470 or higher; and
3. ACT Math score of 19 or higher; or SAT math score of 500 or higher;
4. Approval of high school official.

Note: Students must take the ACCUPLACER assessment if the above tests have not been taken. ACCUPLACER may be scheduled by contacting the CMU Prometric Testing Center at 970.248.1260 at a cost of $17 per section. ACCUPLACER may also be taken through other college testing centers and scores provided to Western Colorado Community College.

In most cases the school district will pay the tuition of the student to concurrently attend Colorado Mesa University or Western Colorado Community College (summer session excluded). Students (or parents or legal guardians if student is a minor) are always responsible for payment of any and all fees, books, and supplies, as well as payment of tuition not covered by the school district. Students must give notice to the high school 60 days before the beginning of the semester they wish to enroll and have all information submitted to the Western Colorado Community College Student Services Office.

Application Process

Early Scholars/High School Scholars Programs
All students wishing to enroll in the Early Scholars or High School Scholars programs must be enrolled in high school (or, if home-schooled, be at the junior or senior level). Qualified students must complete and submit the following: Concurrent Enrollment Application and Concurrent Enrollment Registration Form, current high school transcript, and appropriate test score reports. All Early Scholars or High School Scholars Program students must submit a Concurrent Enrollment Registration form each semester. This form requires completion by the student, lists the desired courses to be taken, and requires the high school official's approval. Early Scholars students (taking classes on one of Colorado Mesa University's campuses) must also submit proof of two (2) measles, mumps, and rubella vaccinations.

Technical Scholars Program
Students earn college credits through the Technical Scholars Program while enrolled in the CTE high school program at Western Colorado Community College. Students must complete and submit the Concurrent Enrollment Application and Technical Scholars Registration Form prior to the start of each semester.

ASCENT Program
ASCENT stands for Accelerating Students through Concurrent Enrollment. Students who have completed at least 12 credit hours of postsecondary courses prior to completion of his/her 12th grade year may be eligible for the ASCENT Program. They remain students in their Local Education Provider (LEP) for one year following their 12th grade year, and the LEP receives ASCENT specific per-pupil state funding that it uses to pay their college tuition. Students receive their high-school diplomas at the end of their ASCENT year.

The LEP will pay the tuition (up to the maximum provided by the Department of Education) for qualified ASCENT students; however, students are responsible for fees, books, supplies, as well as any tuition not covered by the LEP. Students must indicate their initial interest through their high school counselor in the Fall semester (see school district for deadline and application). Qualified students must complete and submit the following by February 1st to apply for the ASCENT program: Western Colorado Community College application, ASCENT Registration Form, current high school transcript, and appropriate test score reports.

Obligations for Concurrently Enrolled Students

1. Upon course registration, students (or parents/legal guardians if student is a minor) incur a financial obligation to CMU.
2. Students participating in this program must apply for the College Opportunity Fund (COF) stipend. A student not registered for COF is responsible for payment of the COF stipend in addition to any additional outstanding tuition/fee charges.
3. Because Early Scholars/High School Scholars enroll in college-level course(s), participating students must meet the same course requirements as other college and university students.
4. Most courses taken satisfy university graduation requirements. Note that Activities (KINA), and advanced placement courses are not eligible under the Early Scholars/High School Scholars program.

5. High School seniors may take developmental basic skills courses under the provisions of the Concurrent Enrollment program. Grades earned in the Concurrent Enrollment program are part of the student’s permanent CMU record and will appear on his/her college transcript; this may affect future university admission and/or scholarship potential.

6. Course credits will transfer only if a student earns a C or better in the course.

7. Students who earn a grade of D or F in any CMU or WCCC course while enrolled in the Concurrent Enrollment program will be financially responsible for repayment of all tuition paid for the course to their school district (if applicable). Further, students earning a grade of D or F while enrolled in the Concurrent Enrollment program will be prohibited from enrolling in any additional courses until they successfully pass the failed course(s) and meet their financial obligations for tuition repayment.

8. If students withdraw from a course after the add/drop date, they will receive a grade of W or F on their CMU transcript and will be responsible for all tuition and fees paid. See official university academic calendar for specific dates.

9. Students participating in this program are not eligible for the following: university activities or sports, and/or federal- or state-funded financial aid, including institutional scholarships funded with general fund dollars.

10. Registration in the Early Scholars/High School Scholars/Technical Scholars programs does not admit the student into a degree program.

11. Student should check with their local school district regarding specific eligibility and financial obligations.

Colorado Mesa University does not guarantee that the approved classes will be available upon registration. Before registering for a specific course, students must fulfill the prerequisites listed in the Colorado Mesa University catalog. Visit Concurrent Enrollment (https://coloradomesa.edu/wccc/concurrent) for more information.
RESIDENCY STATUS FOR TUITION PURPOSES

A student’s tuition classification is governed by state law. For further information regarding tuition classification, please see the Expenses (p. 59) section of this catalog or contact the Tuition Classification Officer located in the Admissions Office at 970.248.1514.
CONFIRMATION OF ATTENDANCE

Admitted students (first-time freshmen and first-time transfers) will receive information regarding the student’s “next steps” highlighting important dates, housing information, payment information, student orientation dates, important phone numbers and many other necessary details about enrolling at Colorado Mesa University.

As soon as a student knows that they will be enrolling at Colorado Mesa University, they should log in to MAVzone and pay the $50 enrollment confirmation deposit. This deposit will be applied directly towards a student’s tuition balance. If the student decides not to attend, please notify the Admissions Office. The deposit will be refunded if the student has withdrawn from all courses for which they registered prior to the end of the add/drop period.
UNDERGRADUATE ADMISSION ASSESSMENT AND COUNSELING TESTS

ACT or SAT
Scores from either the ACT or the SAT are required of all degree-seeking students attending Colorado Mesa University, except in certain cases as detailed below. CMU will super score multiple test scores for admission and scholarship determination. Test scores must be on file in the Admissions Office before official acceptance is granted. Associate and certificate seeking students are not required to have ACT or SAT scores on file but for most programs an alternative assessment test will be required prior to registration. A student’s attainment of a certain ACT composite score, or SAT combined score is one of several criteria considered for admission.

ACT and SAT test results also are used by the student and advisor as the basis for planning a course of study and as an aid in academic placement. Supplemental academic assistance is provided on a limited basis for those whose test scores indicate weaknesses or deficiencies in certain areas such as English and mathematics. ACT and SAT scores also may be used for scholarship consideration and institutional research.

The only exemptions to this admission requirement are for:

1. Students who apply for admission to an associate or certificate level program;
2. Students enrolled only in no-credit desired/audit classes;
3. Students who have already earned an associate or baccalaureate degree at another regionally accredited institution;
4. Students who are transferring from other regionally accredited colleges or universities with 24 or more semester hours of credit.

Prospective students are encouraged to take the ACT or SAT during their high school junior or senior year. Transfer students (unless exempt) are required to have their ACT or SAT scores on file in the Admissions Office prior to registration. ACT or SAT scores from a previous college or university are acceptable.

Assessment and Evaluation After Enrollment
Students are required to participate in testing and other programs necessary for evaluation and assessment purposes. Please see the Learning Progress Evaluation section under General Undergraduate Academic Policies (p. 86).
ACCELERATION OF UNIVERSITY STUDY

It is possible for students to satisfy requirements for baccalaureate degrees in less than the traditional four years (eight regular academic year semesters). Ways of accomplishing this include: enrolling in university classes while a junior or senior in high school; exceeding the normal course load at Colorado Mesa University or elsewhere; challenging by examination courses in which competence has previously been attained; earning credit by testing through the College Level Examination Program (CLEP), DANTES and/or Advanced Placement; obtaining credit for prior learning (competency credit). Additional information may be obtained from IRIS, faculty advisors, or the Registrar’s Office.
NEW STUDENT ORIENTATION

All new degree-seeking first-time Colorado freshmen are required to attend a Student Orientation program in order to register for their first semester courses. Although not required, new degree-seeking transfer and out-of-state students are strongly encouraged to attend as well. Information regarding Student Orientation will be mailed to students upon notification of acceptance and also can be found on the Colorado Mesa University Orientation website (https://coloradomesa.edu/orientation).

For proper academic advising and course placement, new students with low ACT or SAT scores must be assessed with a second instrument prior to a Student Orientation session. The instrument is called ACCUPLACER, and the student’s ACT or SAT sub scores determine whether or not ACCUPLACER testing is necessary. To schedule an assessment, or for more information please contact the Testing Center, 970.248.1260.

Students must be admitted prior to attending Student Orientation. For more information, call 970.248.1875. To register for an Orientation session, log into your MAVzone account.
Welcome Week is an opening week program for first time and returning students. Activities begin the Friday before school starts and carry on throughout the first week of classes.

New students to Colorado Mesa University are strongly encouraged to participate in the programs offered in order to meet fellow classmates and learn about the University's programs and facilities. Parents of graduating high school students are encouraged to attend the weekend program, as well as Parents' Weekend offered later in the fall. Visit the Welcome Week (https://www.coloradomesa.edu/welcome-week) website for schedules and information.
ACADEMIC TRANSITION COURSES

The University offers supplemental courses to assist students in the transition to higher education:

**Freshman Year Initiative (FYI)**
New freshman students are strongly encouraged to enroll in the university’s Freshman Year Initiative (FYI) program. Students are registered for UNIV 101 to maximize their potential for success in college. For more information, visit the FYI (http://coloradomesa.edu/fyi) website.

**Maverick Provisional Program (MVP)**
New freshman students admitted at the Provisional Baccalaureate level are strongly encouraged to enroll in the university’s Maverick Provisional Program (MVP). Students are registered for UNIV 100 to assist them in making a successful transition to college by learning strategies and skills they will need to successfully navigate their first semester. For more information, visit the MVP (http://coloradomesa.edu/mvp) website.
SCHOLARSHIPS AND FINANCIAL AID

Overview

Financial aid at Colorado Mesa University consists of a balanced program of self-help, scholarships, and grants-in-aid awarded for outstanding academic achievement or outstanding performance in special skill areas including vocational skills, athletics, drama, music, etc. Colorado Mesa University also participates in federal and state programs of grants, loans, and student employment, the awarding of which is based primarily on need as determined by a need analysis system approved by the federal government. The application used to determine need is the Free Application for Federal Student Aid (FAFSA) (https://fafsa.ed.gov).

Financial aid awards that are based on the need analysis system consider family resources as the primary source of funding for education, with federal and state sources considered secondary and supplemental. Because prospective students always apply for more financial aid than there is money available, the following priority order is used:

1. As stated in federal law, a parent is primarily responsible for payment of educational expenses of a dependent child. Thus, parents of students attending college are expected to make every effort to assist the student financially.
2. The student, as the benefactor of the educational experience, is the next most responsible person for payment of educational expenses.
3. The third level of responsibility is from outside sources such as communities, clubs, corporations, etc.
4. The final level is federal and state financial aid programs. There has never been enough funding to assist all needy students. Therefore, students should make every effort to obtain assistance at one of the three levels listed above.

Accurate and timely information from the student and parents to the Office of Financial Aid is the responsibility of the student. Failure on the part of the student to supply accurate information on the application may result in reduction or total loss of aid.

Contact

Office of Financial Aid
Colorado Mesa University
Lowell Heiny Hall Room 121
1100 North Avenue
Grand Junction, CO 81501-3122
Call toll free 800.982.6372 or 970.248.1396
financialaid@coloradomesa.edu
GENERAL GUIDELINES

Financial need for educational expenses is an essential requirement to qualify for assistance from most programs. All levels of enrollment will receive consideration.

Since financial need is the primary requirement for determining eligibility for assistance under any of the federal student aid programs, Colorado Mesa University requires that the student applicant submit the FAFSA to the federal processor as soon as possible after October 1. The application is available on the FAFSA website (https://fafsa.ed.gov). Once your application is submitted the Office of Financial Aid may request additional documentation to complete your application. View details on your MAVzone.

Federal Direct Stafford Loans are initiated with the FAFSA application but require that a Master Promissory Note/Loan Agreement and Entrance Loan Counseling be completed for first-time borrowers at Colorado Mesa University. Electronic links for these processes are found at Financial Aid Links (https://coloradomesa.edu/financial-aid/links).

Students must maintain satisfactory academic progress as noted with the terms and conditions of financial aid to remain eligible for financial aid.
SCHOLARSHIPS

Scholarships represent an effort by the State of Colorado and Colorado Mesa University to recognize resident and non-resident students for outstanding achievement in academic and talent areas. Although need is not always a factor in determining recipients, students who are awarded a scholarship are also encouraged to submit a financial aid application.

After students have been admitted to Colorado Mesa University, they will automatically be reviewed for academic scholarship awarding. For more detailed information on academic scholarships, please call the Admissions Office at 970.248.1875 or the Financial Aid Office at 970.248.1396. For detailed information regarding talent scholarships, please contact the appropriate academic department or look for the Academic Works Scholarship Application on your MAVzone.
COLORADO STUDENT AID PROGRAMS

Programs are available to full-time, half-time and less-than-half-time students with priority given to full-time students.

Colorado Grants
Grants are awarded to Colorado resident students on the basis of documented financial need. Financial aid packages which include Colorado Grants may not exceed the documented financial need of the student.

Colorado Work-Study
The Work-Study program is designed to provide employment on campus for students with documented need and who meet the residency requirement for tuition purposes.
CMU FOUNDATION

The Colorado Mesa University Foundation was established in 1961 to solicit and receive charitable gifts for the institution. Today, the Foundation has established an endowment of more than $29,000,000. It has over 260 named scholarships which provides more than $1.75 million in financial aid to CMU students every year.

The CMU Foundation is a non-profit organization governed by a Board of Directors. The board is comprised of talented and successful business and community leaders who recognize the University's pivotal role in the future of our state and wish to aid deserving students at Colorado Mesa University. This group, which functions independently of the University, raises funds for scholarships. The organization is also active in raising substantial gifts to support academic programs and capital expansion. Foundation leadership works closely with the University President to help address the institution's advancement priorities. The CMU Foundation serves as a charitable non-profit organization under Internal Revenue Service 501 (c) (3) designation, and retains fiduciary responsibility for the investment of the funds entrusted to it. Visit Supporting CMU (https://www.supportingcmu.com) for more information.

Private Scholarships

In addition to institutional scholarships, many scholarships and awards have been established for students of the University through philanthropic gifts from individuals and organizations who recognize the importance of Colorado Mesa University. The amounts of the awards vary, but all are designed to apply toward tuition and fees. Visit Scholarships (https://www.coloradomesa.edu/financial-aid/scholarships) to apply for scholarships or contact the Financial Aid office for more information.
FEDERAL STUDENT AID PROGRAMS

Federal Pell Grant Program
This is a grant program available to financially needy students enrolling in an eligible institution of post-secondary education.

College Based Programs
Colorado Mesa University participates in many other federal need-based student-aid programs. These include the

1. Federal Supplemental Educational Opportunity Grant Program,
2. Federal Work Study Program.

Funding is awarded per federal guidelines and on a first-come, first served basis.

Federal Direct Loan Program
This is a loan program consisting of the Federal subsidized and unsubsidized Stafford Loan Program and the Federal Parent Loan for Undergraduate Students (PLUS). Details concerning these programs may be obtained on the Financial Aid (https://www.coloradomesa.edu/financial-aid) website.
WESTERN UNDERGRADUATE EXCHANGE (WUE)

The Western Undergraduate Exchange (WUE) tuition program allows students from 14 western states to attend Colorado Mesa University by paying 150% of the cost of in-state tuition instead of out-of-state tuition. Students who are residents from the states of Alaska, Arizona, California, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming are considered for the award; however, acceptance into WUE is not guaranteed. To be considered students must submit a completed CMU application, all required transcripts and/or test scores, and a copy of a valid WUE state driver's license. Shortly after admission, students with a minimum GPA of 2.0 and a permanent address in one of the WUE qualifying states will be notified of their WUE status.

All undergraduate degree programs are open to WUE students. New freshman or transfer students (24–105 credits) enrolling for the first time at CMU are eligible for WUE consideration. Currently enrolled students cannot be considered for WUE after enrollment at CMU. Returning students (those sitting out one or more semesters) will be considered on an individual basis. Students with prior bachelor’s degrees are ineligible. Through acceptance of the special WUE tuition classification, students acknowledge their intent to maintain their legal domicile in their home state at the time of application. If students desire to change their legal domicile to any other state, including Colorado, they must notify the Tuition Classification Officer in the Admissions Office. At that time a student may be changed to out-of-state for tuition purposes. Please note that time accrued while participating in the WUE tuition program cannot be used to establish domiciliary intent for purposes of claiming Colorado residency. To maintain WUE program status, students must:

1. be a U.S. citizen or permanent resident of the U.S.;
2. be enrolled in consecutive fall and spring terms registering in a minimum of 12 credits each semester. Summer term requires six credit hours;
3. maintain a minimum 2.0 CMU GPA each academic year; and
4. remain a permanent resident of your home WUE state (maintaining your home state driver’s license will be required).

For more information please contact the Admissions Office at 970.248.1514.
The Mountains and Plains (M&P) tuition program allows students from nineteen states to attend Colorado Mesa University by paying 150% of the cost of in-state tuition instead of out of state tuition. Students who are residents from the states of District of Columbia, Delaware, Illinois, Indiana, Iowa, Kansas, Maryland, Michigan, Minnesota, Missouri, Nebraska, Ohio, New Jersey, New York, Oklahoma, Pennsylvania, Texas, Virginia and Wisconsin are considered for the award; however, acceptance into M&P is not guaranteed. To be considered students must submit a completed CMU application, all required transcripts and/or test scores, and a copy of a valid M&P state driver’s license. Shortly after admission, students with a minimum GPA of 2.5 and a permanent address in one of the M&P qualifying states will be notified of their M&P status.

All undergraduate degree programs are open to M&P students. New freshman or transfer students (24–105 credits) enrolling for the first time at CMU are eligible for M&P consideration. Currently enrolled students cannot be considered for M&P after enrollment at CMU. Returning students (those sitting out one or more semesters) will be considered on an individual basis. Students with prior bachelor’s degrees are ineligible. Through acceptance of the special M&P tuition classification, students acknowledge their intent to maintain their legal domicile in their home state at the time of application. If students desire to change their legal domicile to any other state, including Colorado, they must notify the Tuition Classification Officer in the Admissions Office. At that time a student may be changed to out of state for tuition purposes. Please note that time accrued while participating in the M&P tuition program cannot be used to establish domiciliary intent for purposes of claiming Colorado residency. To maintain M&P program status, students must:

1. be a U.S. citizen or permanent resident of the U.S.;
2. be enrolled in consecutive fall and spring terms registering in a minimum of 12 credits each semester. Summer term requires six credit hours;
3. maintain a minimum 2.5 CMU GPA each academic year; and
4. remain a permanent resident of your home M&P state (maintaining your home state driver’s license will be required).

For more information please contact the Admissions Office at 970.248.1963.
TUITION, FEES, RESIDENCE LIFE AND STUDENT ACCOUNTS

Colorado Mesa University reserves the right to adjust any and all charges, including tuition, fees, and room and board, at any time deemed necessary by the Board of Trustees.

Contents

• Campus Payment Plan (p. 69)
• College Opportunity Fund (p. 64)
• Other Fees and Expenses (p. 61)
• Residence Life and Dining (p. 65)
• Residency Petition Deadlines (p. 70)
• Residency Status (p. 67)
• Tuition and Fee Schedule (p. 63)
• Tuition and Fees (p. 60)
TUITION AND FEES

Tuition and fees for the 2018-2019 academic year are current as of the time that this catalog was printed. Students should check the University’s website for the most current rates and information (https://www.coloradomesa.edu/student-accounts/expenses.html). Note that summer term pre-registration is held at the same time as pre-registration for fall term and follows a separate policy regarding refunds.

Student Liability for Tuition and Fees

As agreed upon in the Student Financial Responsibility Agreement (https://www.coloradomesa.edu/student-accounts/financial-responsibility-agreement.html) upon registration, students (or parents or legal guardian if student is a minor) incur a financial obligation to Colorado Mesa University. Anyone who registers for one or more classes is expected to pay the full amount of tuition and fees, unless they officially withdraw by the specified deadlines listed on the Important Dates (https://www.coloradomesa.edu/registrar/dates.html) web page. Students are responsible for payment of all incurred charges on student accounts. All charges are due and payable on the first day of class.

A 1% service charge will be assessed each month on all outstanding balances. All accounts are subject to a one-time 25% late fee up to $100.00 in addition to service charges. No student will be allowed to register for classes, graduate or receive transcripts until their account is paid in full.

Students are liable for additional late fees and/or collection fees and costs, including attorney fees and other charges necessary for the collection of any overdue financial obligation incurred by the student.

Student financial information is available on the Colorado Mesa University website. If you have any questions, contact IRIS at 970.248.1177.

Note: Students should consult the Financial Aid Office regarding the eligibility of undergraduate and graduate certificates for financial aid funding.

Refunds and Tuition Adjustments for Course Changes

Once the term starts, the student is liable for tuition and course fees on any registered course regardless of attendance. It is the student’s responsibility to seek guidance on how a change to their course schedule affects Financial Aid disbursements prior to making any changes.

To qualify for a full refund of tuition and course fees, the student must complete a Semester Withdraw request by the end of the second day of the term for 8-16 week courses or by the end of the first day of the term for all courses less than eight weeks. Following the applicable 1-2 day grace period up to the course drop dates, a Semester Withdraw request reverses tuition and course fees for all dropped courses except a $225 partial tuition assessment. After the drop deadline, withdrawing from classes does not adjust tuition and course fees.

Students who stay registered for at least one class may add and drop courses within the published deadlines and will result in adjustments to tuition and fees to reflect the student’s updated course schedule. After the drop deadline, withdrawing from a class does not adjust tuition and course fees.

Students must officially add, drop, or withdraw from courses as noted in the Registration Policies (p. 83) section in this catalog and by the registration dates published on the Important Dates (https://www.coloradomesa.edu/registrar/dates.html) page.

Student Financial Counseling

If students need assistance with payment arrangements, financial planning, and financial management, please contact IRIS at 970.248.1177, Lowell Heiny Hall 1st Floor.
OTHER FEES AND EXPENSES

Books and Supplies
Required course materials and supplies are sold at The Maverick Store, located in the University Center. Other items sold at the store include general books, art supplies, basic school supplies, calculators, imprinted clothing, backpacks, computers and gift items.

The Maverick Store offers course materials in a variety of formats, including new texts, used texts, rentals and digital materials or e-books. Not all titles will be available in all formats, but many titles are available in multiple formats. Prices will vary depending on format. The estimated cost of course materials is $125-$150 per course. Supply costs vary depending upon student preference and course requirements.

The Maverick Store buys unwanted books for cash on a daily basis, as well as conducting larger buyback events during Finals Week of Fall and Spring semesters.

Students may charge store purchases to their student account via the MAVcharge program. This program is available for a limited time at the start of each semester, and credit limits are based on enrollment status. Details on this program, and other payment options are listed on the store website (http://www.themaverickstore.com).

Application, Evaluation, and Other Charges

Non-refundable fees:

<table>
<thead>
<tr>
<th>Fee or Charge</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate Application</td>
<td>$30.00</td>
</tr>
<tr>
<td>Graduate Application</td>
<td>$50.00</td>
</tr>
<tr>
<td>Matriculation Fee</td>
<td>$135.00</td>
</tr>
<tr>
<td>Housing Application Fee</td>
<td>$25.00</td>
</tr>
</tbody>
</table>

Other charges:

<table>
<thead>
<tr>
<th>Fee or Charge</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Housing Deposit</td>
<td>$125.00</td>
</tr>
<tr>
<td>Enrollment Deposit</td>
<td>$50.00</td>
</tr>
</tbody>
</table>

Parking Permits:

<table>
<thead>
<tr>
<th>Fee or Charge</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commuter</td>
<td>$110.00</td>
</tr>
<tr>
<td>Online Day Permits</td>
<td>$3.00</td>
</tr>
<tr>
<td>Faculty/Staff</td>
<td>$110.00</td>
</tr>
<tr>
<td>Motorcycle</td>
<td>$20.00</td>
</tr>
<tr>
<td>Pay Lots</td>
<td>$1/hour</td>
</tr>
<tr>
<td>Reserved</td>
<td>$300.00</td>
</tr>
<tr>
<td>Residence Hall</td>
<td>$135.00</td>
</tr>
<tr>
<td>Value Lots</td>
<td>$50.00</td>
</tr>
</tbody>
</table>

Permits are valid for a full academic year.

Course-Specific Fees
When private and special instructional services are required, additional charges will be incurred by the student. Fees vary with the nature of the instruction. Private instruction in applied music is available from instructors approved by the university. Cost of this instruction is regular per credit hour tuition plus a specified amount for one thirty-minute lesson each week. Other special instructional services and courses that may require students to pay extra fees include: labs, program-specific fees, courses with transportation fees for field trips, and kinesiology courses such as skiing and snowboarding.

Student Health Insurance
CMU works with local health insurance companies to secure discounts for students. The student must contact the provider directly for prices, payments, and claims. Student health insurance rates change each semester. Rates are established by the insurance providers and vary based on coverage selected. Contact information for health insurance providers can be found on the Office of Student Accounts (https://www.coloradomesa.edu/student-accounts) website.

Personal Technology Recommendations
Colorado Mesa University recognizes the importance of computers as educational tools in the pursuit of higher education. Students are strongly encouraged, to the extent possible, to have a personal computer for their use while attending Colorado Mesa University. Wireless connectivity is available throughout the campus in all buildings, classrooms, and common areas. Wired and wireless access to the Internet is available in all residence halls.

Students who will be purchasing a personal computer, and peripherals, should consider the following recommendations:

**Hardware:** systems with higher processing power and greater quantities of RAM will improve performance and extend the usable life of the system. Students majoring in computer intensive academic programs of study, such as Mass Communication, Graphic Design, Engineering, and others, are encouraged to consult with their department before purchasing a computer. These types of academic programs may require computers with higher end specifications to support the software used.

**Desktop versus laptop/tablet:** desktop computers are generally less expensive than laptops or tablets of comparable computing power. However, portability and wireless connectivity can make laptops or tablets a preferred choice as a desktop replacement or second computer. Thoughtful consideration of your study habits in and outside of the classroom will help you choose the right type.

**Printers:** for black and white printing, laser printers are more cost effective compared to ink-jet printers in terms of the per page cost to print. Generally, inkjet printers are an acceptable choice for low volume color printing. Students should also be aware of MAVPrint, CMU’s campus printing system. This system provides printing in residence hall labs, computer labs, and the Library using campus computers or personal computers. If you are considering purchasing a printer for your dorm room, be sure you purchase a printer that connects via USB. WiFi printing for personal printers is not supported on the CMU network.

**Software:** students may be required to purchase specific software for specific courses. In some cases, students will purchase software along with the textbook used for a given class at a nominal cost. Students should not purchase software until advised by instructors. CMU provides students free access to Microsoft Office 365 applications. Be sure to visit our Information Technology Getting Started page for more specific information.
Other Fees and Expenses

**Consumer Technology Devices**: also, please visit our Information Technology *Getting Started* page for more specific information regarding the use of consumer technology devices such as smartphones, gaming consoles, media streaming devices, televisions, and other devices that frequently require WiFi access.

**Matriculation Fee for New Undergraduate, Transfer, and Graduate Students**

A $135 matriculation fee will be assessed the first semester the student is enrolled at the undergraduate level and at the graduate level unless the student is accepted as non-degree seeking at Colorado Mesa University. This is in addition to the published tuition and fees for the courses. The matriculation fee covers add/drop, career placement, credential (resume) services, graduation (petition) and transcripts.
TUITION AND FEE SCHEDULE

The tuition rates and student fees shown below are for academic year 2018-2019; all rates are subject to change by the University’s Board of Trustees. Rates can be found online at the Office of Student Accounts website (https://www.coloradomesa.edu/student-accounts).

A one-time matriculation fee of $135.00 will be assessed. This fee takes the place of add/drop fees, transcript fees, graduation fees, etc.

Examples:

1. Undergraduate who is full-time, in-state, COF-eligible
   (Note: 12 credit hours is full-time for financial aid purposes. COF availability and amounts are subject to change by actions of the Colorado General Assembly.)
   Per Semester
<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total tuition for 12 credit hours each term</td>
<td>$4,357.20</td>
</tr>
<tr>
<td>Less COF (state's share of tuition)</td>
<td>-$1,020.00</td>
</tr>
<tr>
<td>Equals student's share of tuition</td>
<td>$3,337.20</td>
</tr>
<tr>
<td>Plus general purpose student fees</td>
<td>+$360.00</td>
</tr>
<tr>
<td>Equals total due from student</td>
<td>$3,697.20</td>
</tr>
</tbody>
</table>

2. Undergraduate who is full-time, out-of-state, non-COF-eligible
   (Note: 12 credit hours is full-time for financial aid purposes)
   Per Semester
<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total tuition for 12 credit hours each term</td>
<td>$8,616.00</td>
</tr>
<tr>
<td>(- student's share of tuition)</td>
<td>-$85.00</td>
</tr>
<tr>
<td>Plus general purpose student fees</td>
<td>+$360.00</td>
</tr>
<tr>
<td>Equals total due from student</td>
<td>$8,976.00</td>
</tr>
</tbody>
</table>

3. Undergraduate who is part-time, in-state, COF-eligible
   Description                                      | Cost     |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition per credit hour</td>
<td>$363.10</td>
</tr>
<tr>
<td>Less OCF per credit hour (state's share of tuition)</td>
<td>-$85.00</td>
</tr>
<tr>
<td>Equals student's share of tuition</td>
<td>$278.10</td>
</tr>
<tr>
<td>Plus general purpose student fees</td>
<td>+$30.00</td>
</tr>
<tr>
<td>Equals total due from student per credit hour</td>
<td>$308.10</td>
</tr>
</tbody>
</table>

4. Undergraduate who is part-time, out-of-state, non-COF-eligible
   Description                                      | Cost     |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition per credit hour</td>
<td>$718.00</td>
</tr>
<tr>
<td>(-student's share of tuition)</td>
<td>-$30.00</td>
</tr>
<tr>
<td>Plus general purpose student fees</td>
<td>+$30.00</td>
</tr>
<tr>
<td>Equals total due from student per credit hour</td>
<td>$748.00</td>
</tr>
</tbody>
</table>

5. Graduate tuition varies by discipline. Visit Office of Student Accounts (https://www.coloradomesa.edu/student-accounts) for current tuition and fee rates.
COLLEGE OPPORTUNITY FUND

The State of Colorado allocates money for Colorado in-state undergraduates to help offset the total tuition of their college education. The state's share of in-state tuition—paid from the College Opportunity Fund (COF)—is available for students once the student signs up for a COF voucher account and authorizes their Colorado Mesa University registration. The funds for the COF voucher will be sent directly to the institution. Students are then responsible only for their remaining share of total tuition.

Most in-state undergraduates qualify for participation in the program. Qualifications and the amount of the voucher are subject to actions by the Colorado General Assembly. Additional details are available on the Colorado Mesa University's College Opportunity Fund website (https://coloradomesa.edu/cof).

To create a COF voucher account, a student must register at cof.college-assist.org (http://cof.college-assist.org) and provide a limited amount of information. Note that the process of creating a voucher account is separate from applying for admission to Colorado Mesa University and can be completed at any time prior to enrolling. Qualifying students who do not establish an account into which the voucher can be deposited are responsible for both the state's and the student's share of tuition.
RESIDENCE LIFE AND DINING

On-campus living offers many advantages and choices. The location makes class attendance and activity participation very convenient for Colorado Mesa students. In addition, living on campus relieves the students of many time-consuming responsibilities that enable them to devote more energy to their studies, recreational activities, and making new friends. The many living options we offer help create different opportunities and experiences for you, the student. First and second year students are required to live on campus, with few exceptions - see Residence Requirements for details.

Each residence hall is staffed with an Area Coordinator or Residence Hall Coordinator, as well as Resident Assistants who are trained to help students. Staff members support the educational mission of the University by helping residents adjust to college life, offering social and educational activities, explaining policies, answering questions, and acting as resources.

Residence Hall Choices

There are several choices of on-campus housing available:

1. Five traditional residence halls which require a meal plan (most rooms are designed for double occupancy, although there are a limited number of single rooms).
2. Two semi-suite style residence halls with 4 students per suite that share one bathroom. These halls require a meal plan;
3. Two suite style residence halls that house 2-8 students, in a mixture of single, super single and double bedrooms—along with sharing two bathrooms and a living area. These halls require a meal plan;
4. Three apartment complexes, available for sophomores, juniors, and seniors. This gives you the true apartment feel, while being on campus and close to everything at Colorado Mesa University.

Residence Hall and Dining Contract

Students applying for accommodations on campus are required to submit a $125 deposit and $25 process fee with their signed contract and completed application. On-campus housing is not guaranteed, as availability is limited to approximately 2,513 students. Fall housing applicants will be placed using our auto-assign process until opening day.

The Residence Hall and Dining Contract is a legal agreement between the student and Colorado Mesa University regarding housing and meal plans on campus. The contract is in effect for the entire time with Residence Life (generally, a two year span). These services, however, are billed and payable by semester. The schedule for room and meal plan refunds is outlined in the contract.

Residence Requirement

First-year and sophomore students who are under 21 years of age and not residing with their parents in Mesa County are required to live on campus. Priority is based on the date the complete Residence Hall application and deposit are received by Residence Life. A student may qualify for exemption from the on-campus requirement for definite reasons expressed in writing and approved by Residence Life. Reasons include:

1. Will be 21 years of age before the start of the semester attending (no additional documentation required)
2. Resides at parent’s permanent address within Mesa County (no additional documentation required)
3. Married or a Single Parent with custody of child
   • Provide copy of certified birth or marriage certificate
   • Custody paperwork if applicable
4. Profound disability or medical condition that makes living on campus impossible
   • Provide a letter from student indicating why it is not possible to live on campus including why moving to another residence hall room/apartment will not solve the issue.
   • Provide documentation from a medical professional supporting your letter. The medical professional must have a previously existing relationship with the student. The letter needs to include specific medical diagnosis and issues that are the result of living on campus that would not occur off campus.
   • Documentation will be reviewed by Director of Student Health Services

5. Extreme Financial Hardship
   • A Free Application for Federal Student Aid (FAFSA) must be filed for the academic year. Residence Life in conjunction with Financial Aid will use unmet need and Expected Family Contribution to determine if you qualify for this exemption. If this review does not result in an exemption you will have the opportunity to appeal and provide additional information about your specific circumstances.

Questions concerning housing on campus should be directed to Residence Life at 970.248.1536 or email reslife@coloradomesa.edu.

Off-Campus Housing

The university and Residence Life do not manage off-campus housing placements but attempts to assist students in locating housing. “Almost Home” is a Grand Junction community service for listing rental properties and roommate exchange. The listings are posted on the Catholic Outreach (http://www.catholicoutreach.org) website. Properties are not religiously affiliated.

Campus Dining

Campus Dining Services offers food service to students at Colorado Mesa University which includes a choice of two meal plans (prices are per semester):

<table>
<thead>
<tr>
<th>Plan</th>
<th>Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Unlimited meals in the Dining Hall with $150 in MAVmoney that can be used at several restaurants around campus</td>
</tr>
<tr>
<td>B</td>
<td>Unlimited meals in the Dining Hall with $150 in MAVmoney that can be used at several restaurants around campus</td>
</tr>
</tbody>
</table>

Multiple entrees are served with unlimited seconds. Weekday breakfast starts at 6:45am for those in enrolled in meal plan A, and 10:30am for meal plan B. Only two meal periods are available on Saturday and Sunday (brunch and dinner). Both meal plans have full access to brunch and dinner 10:30am to 1:30pm and 5:00pm to 8:00pm. Menus are planned with special needs in mind with our Simple Servings, Vegan, and Healthy Choices sections. The General Manager and Executive Chef encourage students with special dietary needs or requests to meet with...
them to help plan healthy alternatives. This is at no additional costs to
the student.

Students living in traditional residence hall rooms, semi-suites or
suites are required to select a meal plan. Students living in on-campus
apartments or living off-campus may purchase meal plans and/ or
MAVmoney. Meals are served seven days per week during the academic
year with limited meals during short breaks. Commuter students are
welcome to purchase any of the resident student meal plans, or try one of
our commuter plans. Call or visit the MAVcard Office (970.248.1059) for
more information on dining services.

Room and Board Charges
All rates listed below are for the Fall 2018 semester, per student. A $20
per semester charge will be added to all residents’ accounts for a non-
refundable activity fee.

Room and Apartment Rates
Meal plan required for all rooms and apartments unless otherwise noted.

Bunting Hall (semi-suite):

<table>
<thead>
<tr>
<th>Room or Apartment Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lofted Double</td>
<td>$3,250.00</td>
</tr>
<tr>
<td>Double room</td>
<td>$3,600.00</td>
</tr>
<tr>
<td>Single room</td>
<td>$4,500.00</td>
</tr>
<tr>
<td>Super single</td>
<td>$5,000.00</td>
</tr>
</tbody>
</table>

Garfield Hall (traditional):

<table>
<thead>
<tr>
<th>Room or Apartment Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double room</td>
<td>$3,000.00</td>
</tr>
</tbody>
</table>

Grand Mesa Hall (suite):

<table>
<thead>
<tr>
<th>Room or Apartment Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double room</td>
<td>$3,450.00</td>
</tr>
<tr>
<td>Single room</td>
<td>$4,500.00</td>
</tr>
<tr>
<td>Super single</td>
<td>$5,000.00</td>
</tr>
</tbody>
</table>

Monument Hall (semi-suite):

<table>
<thead>
<tr>
<th>Room or Apartment Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double suite</td>
<td>$3,200.00</td>
</tr>
</tbody>
</table>

Lucero Hall:

<table>
<thead>
<tr>
<th>Room or Apartment Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suite, double room</td>
<td>$3,290.00</td>
</tr>
<tr>
<td>Suite, single room</td>
<td>$3,550.00</td>
</tr>
<tr>
<td>Apartment, double</td>
<td>$3,625.00</td>
</tr>
<tr>
<td>Apartment, single</td>
<td>$3,975.00</td>
</tr>
</tbody>
</table>

Piñon Hall (traditional):

<table>
<thead>
<tr>
<th>Room or Apartment Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double room</td>
<td>$3,000.00</td>
</tr>
<tr>
<td>Single room</td>
<td>$3,750.00</td>
</tr>
</tbody>
</table>

Rait Hall (traditional):

<table>
<thead>
<tr>
<th>Room or Apartment Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double room</td>
<td>$2,200.00</td>
</tr>
<tr>
<td>Single room</td>
<td>$3,250.00</td>
</tr>
</tbody>
</table>

Tolman Hall (traditional):

<table>
<thead>
<tr>
<th>Room or Apartment Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double room</td>
<td>$2,200.00</td>
</tr>
<tr>
<td>Single room</td>
<td>$3,250.00</td>
</tr>
</tbody>
</table>

Walnut Ridge Apartments:

<table>
<thead>
<tr>
<th>Room or Apartment Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double room</td>
<td>$3,315.00</td>
</tr>
<tr>
<td>Single room</td>
<td>$3,900.00</td>
</tr>
</tbody>
</table>

| Meal plan optional                      |        |

Wingate Hall:

<table>
<thead>
<tr>
<th>Room or Apartment Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double room</td>
<td>$3,250.00</td>
</tr>
</tbody>
</table>

Meal Plans
All rates are per semester. Meal plans are available to all students and
mandatory for those living in a traditional or suite-style residence hall.
Plan A and Plan B each include $150.00 in MAVmoney.

<table>
<thead>
<tr>
<th>Plan</th>
<th>Service</th>
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<tbody>
<tr>
<td>A</td>
<td>Unlimited Dining Hall, $2,462.50</td>
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<tr>
<td>B</td>
<td>Unlimited Dining Hall, $2,265.00</td>
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</table>

Contact Information

<table>
<thead>
<tr>
<th>Communication Type</th>
<th>Contact Information</th>
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</thead>
<tbody>
<tr>
<td>Mail</td>
<td>Residence Life, Colorado Mesa University, 1100 North Avenue, Grand Junction, CO 81501</td>
</tr>
<tr>
<td>Phone</td>
<td>970.248.1536</td>
</tr>
<tr>
<td>Fax</td>
<td>970.248.1979</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:reslife@coloradomesa.edu">reslife@coloradomesa.edu</a></td>
</tr>
<tr>
<td>Web</td>
<td><a href="http://coloradomesa.edu/residence-life">http://coloradomesa.edu/residence-life</a></td>
</tr>
</tbody>
</table>

1 Meal plan optional
RESIDENCY STATUS

Determination of Residency Status for Tuition Purposes

Tuition classification is governed by state law (Colorado Revised Statutes, Sections 23-7-101 to 104 and 23-7-105) and by judicial decisions that apply to all public institutions of higher education in Colorado. Colorado Mesa University does not have discretion to make exceptions to state law. Although an individual may be considered a state resident for voting and other legal purposes after being in the state for a short period of time, the tuition law specifies additional requirements for classification as “in-state” for tuition purposes.

Initial tuition classification is determined from information a student supplies on an application for admission to Colorado Mesa University. Failure to completely answer questions may lead to an initial classification of out-of-state for tuition purposes. A student's residency status will be stated within their admissions letter. Students who identify that their classification is incorrect should contact the Admissions Office immediately.

Students who are entering a Colorado university immediately after completing high school are granted in-state status if they:

- Are a United States citizen
- Graduated from a CO public or private high school (list school)
- Attended a CO high school for at least three consecutive years (must list specific years of attendance)

Students who have earned a GED taken within 12 months of entering college are granted in-state status if they:

- Are a United States citizen
- Successfully completed a GED test (list test date)
- Resided in CO for the three years preceding the proposed first semester of enrollment at a CO college (list specific years of residence)

New students seeking in-state status who are unable to answer either of the above series of questions will need to answer all questions on the residency section of the admissions application. If a student is under the age of 23 and not otherwise emancipated via marriage, having a dependent or having been in military service, then CO statute requires parental information to determine the student’s residency status. A student under the age of 23 may be granted in-state tuition based on their parental information as long as the parent meets Colorado in-state statute requirements and the student is not otherwise emancipated as previously mentioned. All questions in the residency section of the admissions application should be answered with parent information in this case.

If a student under the age of 23 is emancipated via marriage, having a dependent or having been in military service, they need only provide their own information (not parent information). If a student is over the age of 23, questions need only be answered with student information (not parent information). Colorado statute requires physical presence (domicile) and intent to be a permanent resident of Colorado a full 12 months prior to the first day of the semester in which the student wishes to be considered in-state.

Students under 23 with no CO Resident Parent

Students under the age of 23 seeking in-state tuition, do not have a parent who resides in CO, and are not otherwise emancipated as outlined above must submit a Residency Petition to request in-state status on their own accord. These students must prove that their sources of income are sufficient to meet their financial needs without any parental assistance for a full 12 month period prior to the term they seek in-state status. In addition, they must prove 12 month’s domicile (bodily living) in CO and that all prior state ties are severed and created in CO for that 12 month period. A Residency Petition will require documents be attached as proof and must be notarized.

Changing from Out-of-State to In-State Status

Students who begin classes at CMU with out-of-state tuition may petition for in-state status when they believe they have met all state of CO requirements for such. A Residency Petition may be submitted if:

1. a student is under the age of 23 and their parent is now a CO resident;
2. the student is under 23 and seeking in-state status on their own accord; or
3. the student is over the age of 23 and believe they have now met CO requirements for in-state status.

A change in status is NOT automatic after attending CMU as an out-of-state student for one year; a student’s way to request in-state status is by submitting a completed, notarized Residency Petition with all requested documents attached. Domicile (bodily living) in CO a full 12 months and intent to be a permanent resident of CO are required. Intent requires severing prior state ties and creating them in CO. Such items include, but are not limited to: driver’s license, vehicle registration, voter registration and payment of CO state income tax.

The Residency Petition may be found on our Admissions Forms (https://coloradomesa.edu/admissions/forms.html) web page. You may also pick up a copy in the Admissions Office. Completed, notarized petitions with all requested documents attached are to be submitted directly to the Tuition Classification Officer located in the Admissions Office. Please see the stated deadlines for submission of Residency Petitions.

Residency Appeals

Students who do not agree with the decision of their residency petition may appeal the decision in writing within 15 days from the date their denial decision was e-mailed to them. The appeal and any additional documentation should be sent directly to the Tuition Classification Officer located in the Admissions Office. The decision of the Residency Appeals Committee is the final university determination. For further residency related questions, please contact the Tuition Classification Officer at 970.248.1514.

Military Exemptions and Tuition

Certain exemptions for in-state tuition status are available for military personnel if:

- military personnel is active duty and stationed in CO – copy of orders

needed to consider student, spouse, or children in-state without further documentation;
Residency Status

- Honorably Discharged Veteran – copy of DD-214 reflecting Honorable Discharge must be provided to the CMU Veteran Services office;
- Veteran is using VA Education benefits – a copy of Certificate of Eligibility must be provided to the CMU Veteran Services office.

Service members who do not receive an honorable discharge are not eligible for in-state status under the state statutes or for federal veterans education benefits. These students, may, however, meet Colorado in-state residency requirements outlined in C.R.S. 23-7-103.

Contact the Tuition Classification Officer in the Admissions Office for further details.

Dependents of Military Personnel

Certain exemptions for in-state tuition status are also available for dependents of military personnel if:

- military personnel is an active duty member of armed forces in CO and is
  - stationed in CO or
  - was transferred out of Colorado;
- military personnel is active duty in the state during the student’s last year of high school and student intends to enroll in CMU within 12 months of graduating from high school;
- military personnel is an honorably discharged service member currently living in Colorado, regardless of length of residency;
- the honorably discharged service member does not reside in Colorado, but was assigned on permanent or temporary duty in Colorado within the past 12 years;
- dependent is using VA Education benefits – a copy of Certificate of Eligibility must be provided to the CMU Veteran Services office.

Citizenship and Tuition Classification

Unless otherwise noted in this section, only US citizens, permanent residents, and a select few Visa holders are eligible to be considered for in-state tuition status. Additionally, students without lawful immigration status may be eligible for in-state status if they meet all criteria through ASSET as outlined in the following paragraph.

Students without Lawful Immigration Status and Colorado ASSET Bill

SB 13-033, otherwise known as the ASSET bill, was signed into law in April of 2013. This bill allows certain students without lawful immigration status to be considered in-state for tuition purposes when all the following criteria are met:

1. Attended a CO high school for a minimum of three years;
2. Graduated from a CO high school;
3. Are admitted to a CO university within 12 months of CO high school graduation; and
4. Have completed the College Opportunity Fund (COF) application process including attached Affidavit.

Students having earned a GED may be considered as long as they also attended a CO high school for a minimum of three years prior to earning their GED, are admitted to the university within 12 months of their GED test date, and have completed the COF application and affidavit. Students who were not admitted to the university within 12 months of their high school graduation or GED test date must prove 18 months physical domicile in CO in addition to the above requirements. Students who graduated from a Colorado high school or completed GED prior to September 1, 2013 and were not admitted into college within 12 months must prove 18 months physical domicile in CO and meet all other eligibility criteria. Please contact the Tuition Classification Officer in the Admissions Office for further details.
CAMPUS PAYMENT PLAN

Colorado Mesa University provides a payment program designed to meet the specific needs of students and parents. Semester charges for tuition, fees and institutional room and board can be paid in monthly or bi-monthly installments, beginning in August (for fall), May (for summer) and in January (for spring). Contact IRIS for more information or visit ePay (https://coloradomesa.edu/epay).
## Residency Petition Deadlines

<table>
<thead>
<tr>
<th>Semester</th>
<th>Qualifying Cut-Off Date</th>
<th>Submit Petitions No Earlier Than…</th>
<th>Submit Petitions No Later Than…</th>
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</thead>
<tbody>
<tr>
<td>Fall 2018</td>
<td>First day of class</td>
<td>June 20, 2018</td>
<td>One week prior to first day of class</td>
</tr>
<tr>
<td>Spring 2019</td>
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<td>November 7, 2018</td>
<td>One week prior to first day of class</td>
</tr>
<tr>
<td>Summer 2019</td>
<td>First day of class</td>
<td>March 6, 2019</td>
<td>One week prior to first day of class</td>
</tr>
<tr>
<td>Fall 2019</td>
<td>First day of class</td>
<td>June 19, 2019</td>
<td>One week prior to first day of class</td>
</tr>
<tr>
<td>Spring 2020</td>
<td>First day of class</td>
<td>November 6, 2019</td>
<td>One week prior to first day of class</td>
</tr>
</tbody>
</table>
ACADEMIC AND STUDENT SERVICES, OFFICES AND ACTIVITIES

Important Contacts
Office of Academic Affairs, 970.248.1881
Office of Student Accounts, 970.248.1567
Office of Student Services, 970.248.1366
Student Life, 970.248.1111
WCCC Student Services, 970.255.2660

Admissions Office
1100 North Avenue
800.982.6372 or 970.248.1875

The Admissions Office serves as the welcome center for prospective students and their families. Among the staff's responsibilities are the recruitment of students and the processing of admissions applications, new student academic scholarships, and petitions for changes to residency classification for tuition purposes. Activities of the University's student ambassadors are also coordinated through this office as well as daily tours.

Campus Recreation Services
Hamilton Recreation Center
970.248.1592

Campus Recreation Services is established to provide varied programs and services that will contribute to the health and well-being of the students of Colorado Mesa University. Hamilton Recreation Center encourages responsible use of leisure time by providing an atmosphere that fosters the development of lifelong patterns of recreational activities and opportunities for participation in such activities regardless of age, sex, race, or motor ability. To do so, facilities and resources are designed to provide appropriate environments for participants through the following:

- Providing access to recreation facilities, equipment, and activities for convenient, informal participation (Open Recreation Program). These facilities include a multi-sport gymnasium, outdoor basketball and sand volleyball courts, cardio machines, free weights, cross-functional Rogue Infinity training rig, TRX suspension training, reinforced medicine ball wall, racquetball courts, 38-foot climbing wall, and premier swimming pool.
- Offering structured and non-structured opportunities for improving and maintaining physical fitness (Wellness Program). These opportunities include group exercise classes like yoga, spin, and Zumba, wellness assessments, personal training including exercise program prescription, massage therapy, and nutrition counseling.
- Offering students significant opportunities for career development, including the acquisition of leadership, management, and technical skills in all areas of Campus Recreation Services (Student Employment Program).

CMU also offers structured competitive and social opportunities in a variety of individual and team sports (Intramural and Club Sports). Intramural sports are free for all students at CMU. Providing an opportunity to compete against classmates, dorm mates, and other campus members in soccer, flag football, basketball, volleyball, ultimate Frisbee, softball, dodgeball, and battleship leagues and one day tournaments. Head to the Intramural Sports (https://www.coloradomesa.edu/student-life/intramurals) website or contact the Intramural Sports office at 970.248.1591 for details on how to sign up for the next league!

Club sports at CMU allow students to compete against other universities across the state, region, and country. Club sport teams practice on a weekly basis and compete on a frequent basis. We currently offer: Alpine Ski, Archery, Badminton, Baseball, Bass Fishing, BMX, Bowling, Cross Country, Cyclocross, Disc Golf, E-Sports, Fencing, Men's Ice Hockey, Men's Lacrosse, Men's Basketball, Men's Rugby, Men's Soccer, Men's Volleyball, Mountain Bike, Nordic Ski, Road Cycling, Rodeo, Softball, Swim and Dive, Table Tennis, Tennis, Track Cycling, Trap and Skeet, Ultimate Frisbee, Women's Basketball, Women's Lacrosse, Women's Rugby, Women's Soccer, Women's Volleyball, and Water Polo. For more information, please visit the CMU Athletics (http://cmumavericks.com/sports/2015/6/10/Club%20Sports%20Office_0610154949.aspx?path=club_sports_office) website or contact the Club Sports office at 970.248.1115.

Career Services
University Center, Room 107
970.248.1404

Career Services provides a variety of services to students and alumni to assist in attaining their career goals. Services provided are:

- Career Assessments
- Career, Graduate, Teacher and Major Fairs
- Workshops:
  - Resume/Cover Letter
  - Internships/Job Search
  - Interviewing Skills
  - Choosing a Major
- Handshake (job/internship database)
- Optimal Resume (resume builder)
- On-campus Employer Recruiting
- Etiquette Dinners

1 Some restrictions may apply.

Educational Access Services
Houston Hall, Room 108
970.248.1856

Support services for students with documented disabilities are available through Educational Access Services (EAS), a division of Academic Services. Several services are available, depending upon the documented disability. Services can include, but are not limited to, volunteer note takers, testing accommodations, and textbooks in alternate formats. Prospective students are encouraged to contact the Coordinator of Educational Access Services to discuss accommodations. Students must initiate a request for accommodations by contacting the EAS office. A new request must be made each semester.

Emergency Contact Services
Lowell Heiny Hall, Room 107
970.248.1366

The Office of the Vice President for Student Services, located in LHH 107, is the referral point for emergencies encountered by students. Issues such as messaging for emergencies while a student is in class are determined on a case-by-case basis. It is important to note that the office cannot guarantee a contact with any student due to their highly mobile behavior, but a good faith effort will be made. This service is not for non-emergency situations.

Financial Aid Office
Lowell Heiny Hall, Room 121
970.248.1396

The Financial Aid Office works with students to meet educational expenses through various monetary resources. Depending on a student’s qualifications, aid is available in the form of scholarships and grants that do not need to be repaid. Additionally, students can apply for loans that are need- or non-need-based, as well as, work-study employment.

Intercollegiate Athletics
Maverick Center
970.248.1503

Intercollegiate athletics provides students with equitable opportunities to enhance their education, represent the University, and participate in athletics while developing skills and understanding. All undergraduate students are encouraged to participate in intercollegiate athletics as determined by their interests and capabilities.

Participation in the program, however, is secondary to the academic expectations of students. To this end, it is the responsibility of those administering the program to schedule the length of playing seasons, the frequency of practice sessions, and the number of contests so that they shall not unreasonably conflict with students obligations to attend class regularly; to study; to develop their intellectual, moral, and social faculties, and to graduate from the university as educated men and women. The men’s program at Colorado Mesa University includes baseball, basketball, football, golf, soccer, swimming, tennis, lacrosse, cross country, track and field, triathlon, and wrestling. Basketball, cross country, golf, beach volleyball, soccer, softball, swimming, tennis, lacrosse, track and field, triathlon, volleyball, and wrestling are available to women.

Colorado Mesa University also offers competitive cheerleading.

International Student Admissions and Programs Office
Rotary Hall • 970.248.1802

The International Student Admissions and Programs Office oversees international student admissions and recruitment, international student services and advising, international initiatives and development, international student programming, and study abroad.

IRIS Advising and Financial Counseling Center
Lowell Heiny Hall, First Floor
970.248.1177
IRIS Website (https://www.coloradomesa.edu/iris)
iris@coloradomesa.edu

CMU provides students holistic advising thought the Integrated Resources for Information and Solutions (IRIS) Advising Center, where we can assist students with anything from academic advising through financial counseling. The IRIS Advising Center acts as the academic advisor for first time freshman and students with undeclared majors. Once a student declares a major, they should meet regularly with their faculty advisor. IRIS Advisors can also assist all students with understanding the financial aid process, understanding your bill, setting up payment plans, and provide financial counseling in regards to their financial status at the institution.

Undeclared students are assigned to the IRIS Advising Center and must meet with an advisor prior to registration. IRIS advisors will assist students in course selection and registration, help students with strategies for academic success, and guide students in career exploration. Students who have decided on a major will be directed to the appropriate academic department. A department’s administrative assistant can officially declare or change the student’s major/minor, provide a program sheet, and assign the student to a faculty advisor.

Services provided at the IRIS Advising Center include:

• Provide general academic advising by assisting in course selection and registration
• Guide students in major exploration and assist with strategies for academic success
• Assisting with administrative campus policies and procedures
• Understanding and completing the financial aid process
• Understanding your student account and billing statement
• Help with making payment and setting up payment plans
• Support through financial counseling

The IRIS Advising Center is committed to assisting students in attaining their educational and financial goals.

John U. Tomlinson Library
970.248.1862

Tomlinson Library is a welcoming, comfortable environment, providing assistance from professional librarians, reservable study rooms, 24-hour study space, computers, printers, scanners, IT support, convenient dining options, outdoor seating with a fire pit, and much more.

The library collection includes over half a million books, e-books, and audio-visual materials. Also available are over 120 databases which include access to full-text academic journals and other online resources. Additional materials are available for borrowing from many academic, research, and public libraries throughout Colorado and beyond. Materials can be delivered to the Montrose campus and Western Colorado Community College.

Librarians provide personalized research assistance to patrons. Faculty can request information literacy instruction from librarians to help students identify, evaluate, and ethically use information sources within and beyond the Library. Individualized research assistance is available at our Research Help Desk, by 24/7 online chat, telephone, or email. Library staff are happy to answer any questions about the library’s resources or services.

Little Mavericks Learning Center
1704 N 8th Street

72 Academic and Student Services, Offices and Activities

Academic and Student Services, Offices and Activities
Childcare is available year round for children of Colorado Mesa University students, faculty, and staff. Little Mavs serves children one year and walking up to five years of age. Summer, Friday, and school district non-contact day programs are available for children in Kindergarten up to 12 years old and are open to the community. For further information, visit the Little Mavericks (https://www.coloradomesa.edu/little-mavs) website or contact the Center Director.

**MAVcard Student ID**

University Center 970.248.1059

The Colorado Mesa University MAVcard is your key to campus services at Colorado Mesa University. The MAVcard can be used at Starbucks, The Point, Hamilton Recreation Center, Juice Junction, Rowdy’s, Umai Bowls and Rolls, Chick-fil-a, the Dining Hall, CMU Bookstore, Houston Café, Pandini’s, Tres Habaneros and Jazzman’s. It can also be used at off-campus merchants such as Mountain Grind Coffee Company, Bravo Pizza, Domino’s Pizza, Yogo MoJos, Jimmy John’s (on 12th Street) and The Scramble at WCCC. Your MAVcard is also used to access residence halls, Tomlinson Library, athletic events, and student life events. The MAVcard can be enhanced by linking to a U.S. Bank checking account, allowing free ATM usage and direct deposit.

**Mentoring Assistance**

Albers Hall • 970.248.1765

The Student Services Office provides mentoring assistance for students who are in need of support. If a student is dealing with any issue the Student Services office will provide resources to ensure students success. Mentoring guarantees a student that there is someone who cares about them. A student is not alone in dealing with day-to-day worries and pressures of a University environment. Students who meet regularly with their mentors are 52% less likely than their peers to miss classes. (Public/Private Ventures study of Big Brothers Big Sisters).

**National Student Exchange Program (NSE)**

Registrar’s Office • 970.248.1813

Colorado Mesa University is a member of the National Student Exchange Program. NSE is a consortium of over 160 colleges and universities in the United States, its territories, and Canada. Colorado Mesa University students may be able to participate in this program at in-state tuition rates for up to one academic year and receive full credit for course work completed while on exchange. For further information, contact the Registrar’s Office or visit C (http://coloradomesa.edu/nse) MU’s National Student Exchange (https://www.coloradomesa.edu/national-student-exchange) website.

**Office of Student Accounts**

Lowell Heiny Hall IRIS Desk • 970.248.1177

Office of Student Accounts is responsible for student billing, collection of tuition, fees and other charges, and refunding excess Financial Aid to Students. We administer various payment options and schedules (such as the campus tuition payment plan) to ensure bills are paid on time without penalty. For detailed information concerning the various costs and fees a student may incur and payment options please visit the Office of Student Accounts (https://www.coloradomesa.edu/student-accounts) website.

**Office of Student Success**

Albers Hall • 970.248.1340

The Office of Student Success (OSS) advises all Provisional Baccalaureate (PB) students. These students fall between the Associate and Baccalaureate admission requirements for acceptance to CMU. The PB program gives students the opportunity to pursue a bachelor’s degree while receiving additional advising and academic support. The primary role of the OSS is to assist the PB students in developing the skills they need to successfully transition to their desired Baccalaureate program.

The PB program takes a holistic approach to ensure student success and is tailored to the individual student through extensive, one-on-one interactions with an academic coach. The OSS has both professional Academic Success Coaches and Peer Academic Coaches who will assist students with all aspects of their academic experience, including helping them successfully transition to college life, improve study skills, schedule courses, and identify majors and careers they are interested in pursuing.

**Parking Services**

University Center 970.248.1921

Students and University faculty/staff members who wish to park on campus may purchase parking permits for designated areas. Your license plate is your permit (after it is registered and the permit fee is paid). Multiple vehicles can be registered, but only one vehicle may be parked on campus. A parking permit does not guarantee a parking space, but allows on-campus parking when such space is available. Visit the Parking Services (http://coloradomesa.edu/parking) website for more information.

**Registrar’s Office**

Lowell Heiny Hall, Room 117 970.248.1555

The Registrar’s Office provides a variety of services that include registering students into classes, maintaining academic records, VA benefits and certifying degree requirements for graduation. The office is responsible for processing applications for readmission to Colorado Mesa University, as well as forms to add/drop a class, holds on registration, change of address, non-release of directory information protected by federal law, and enrollment verification for loan or insurance purposes. The office also prepares Colorado Mesa University transcripts and evaluates transcripts from other institutions to determine the number of credits that will apply toward a particular degree. For more detailed information on any of the services, please visit the Registrar’s Office (https://www.coloradomesa.edu/registrar) website.

**Student Diversity, Advocacy and Health**

Lowell Heiny Hall • 970.248.1754

The Student Diversity, Advocacy and Health office works alongside the office of Student Services to support a diverse student body of Colorado Mesa University. This office specializes in problem solving and helping students to become better informed and grow as adults; whether these decisions involve classes or any other aspect of university life. Student Diversity and Advocacy provides students with real life inclusion
Student Life

University Center, Room 212
970.248.1111

There are a number of student fee-funded organizations that are administered by Colorado Mesa University students including the following:

- Associated Student Government (ASG): ASG is the representative body and official voice of the students. The ASG operates through the General Assembly, a legislative body composed of students elected by the student body. Students involved in ASG have an opportunity to gain leadership skills by representing student opinions to the CMU administration and the University's Board of Trustees, and they are responsible for reviewing and administering student fee requests.

- Club Advisory Board (CAB): Many student clubs and organizations exist at Colorado Mesa University. Currently CMU has over 125 active clubs on campus including honor societies, academic club, general interest clubs, fraternities and sororities, faith-based clubs and volunteer and activist clubs, which allow students to meet other students who share similar interests. A list of current active clubs and organizations can be viewed on the Colorado Mesa University website under Student Life.

- Clubs Sports: CMU provides an opportunity for students to compete in club sports with an offering of over 27 sports. For a list of sports, tryouts, and schedules visit the club sports website under Student Life.

- Cultural Diversity Board (CDB): This student organization offers leadership experiences for students and organizes programs to educate students regarding multiculturalism. Member groups include the Black Student Alliance (BSA), Gay-Straight Alliance (GSA), International Student Alliance (ISA), Latino Student Alliance (LSA) and Native American Student Alliance (NASA).

- Intramural Sports: now offering more than 30 different sports IM sports are a fun way to meet people and stay active. Leagues are always forming and run from one day tournaments to 8 week competition. Sports range from flag football, softball, racket-ball, battleships and many more.

- MavRides: Provides free safe rides to all CMU student every Thursday, Friday and Saturday nights from 9pm-3am. Call for a ride or volunteer as a driver 970-248-2222.

- Media Organizations: These organizations include the student newspaper, The Criterion, the student radio station, KMSA 91.3 FM, the literary and art publication Literary Review, the Campus Design Studio and the Horizon Magazine. Each of these groups is professionally advised by faculty members and utilizes the latest equipment employed in their fields.

- Outdoor Program: This group is CMU's headquarters for outdoor adventure and education. The OP organizes trips and classes including whitewater rafting, rock climbing, and skiing. The rental center is located next to the Residence Life Center. Rent mountain bikes, canoes, kayaks, cross-country skis, backpacks, and other gear.

- Performing Arts Organizations: All CMU students are encouraged to audition to join a musical group, participate in theatre, or be part of a dance performance. Performances in the arts are highly regarded at Colorado Mesa University and are well attended by students and the community.

- Programming Activities Council (PAC): PAC is responsible for Welcome Week Concert, Homecoming and MavFest as well as other entertainment activities including concerts, movies, dances, comedians, hypnotists and speakers. Best of all, everyone of the over 100 yearly events are free for all CMU students.

- Sustainability Council: Committed to providing sustainable solutions to CMU, the Sustainability Council oversees a recycling program, a campus garden and compost facility, and a restoring program that receives donated goods from exiting CMU residents to be purchased by incoming students the next fall.

Student Wellness Center (SWC)

1060 Orchard Avenue, Suite O
970.644.3740

Good health, both physical and emotional, is an important factor in successful college work. It is the goal of the Student Wellness Center to provide competent, accessible and comprehensive health care and wellness to all CMU students who have a valid student I.D. card regardless of the number of credit hours carried.

Medical Services

Like your family physician, the SWC provides a source of basic medical assistance for all CMU students. Outpatient health services are contracted with Community Hospital and students are required to pay a $15.00 co-pay for all health services received at the SWC. The primary services provided are: first aid, dispensing of simple medications, assessment and referral to specialty physicians and dentists, providing counsel for personal health problems, simple physicals, screenings and limited lab tests for a nominal fee. Health services are provided by registered nurses, physicians and practitioners in providing a complement of health care. The physician/practitioner provides students with an initial health assessment and evaluation, treats minor illnesses, and refers students for hospitalization or specialized treatment as needed. A registered nurse is available to answer questions and provide medical information.

Behavioral Health Services

All CMU students are eligible for counseling services for a $5 copay. Students can access and referrals can be made through any office on campus directly by calling the SWC to set up an appointment. These services are provided by licensed/certified counselors and are designed to support students in assisting them with any of life's challenges that may be affecting their academic life.

Empowerment Classes

These classes are designed to support students in making adjustments to life's transitions and the changes in their lives. These classes are based on Cognitive Behavior Therapy (CBT) approaches that focuses on the aspects of mindfulness, emotional regulation, distress tolerance and interpersonal effectiveness.

Prime for Life Classes (PFL)

These classes are designed to address substance misuse and prevention. The University, which is an active participant in the Mesa County Prevention Policy Board, supports the concepts of proactive prevention
as part of the University’s overall policy of maintaining a safe and healthy campus. PFL is an evidenced-based, state approved curriculum for substance abuse prevention and is a harm reduction model that focuses on healthy lifestyle choices.

Behavioral Health Services are provided Monday-Saturday from 8am to 6pm for scheduled appointments. Students can schedule an appointment by stopping by the SWC or by calling 970.644.3740.

**Hours of Operation**
Monday—Saturday: 8am–6pm
Sunday: Noon–4pm

Medical walk in times are available during regular office hours and students can schedule a medical appointment online by selecting the Schedule Appointment Online button on the Student Wellness Center website (https://www.coloradomesa.edu/student-services/health-safety/health-center.html) or by calling 970.644.3740.

**Study Abroad and the International Student Exchange Program (ISEP)**

Rotary Hall • 970.248.1802

In addition to developing direct agreements with foreign institutions for exchange opportunities, Colorado Mesa University is part of the International Student Exchange Program (ISEP). ISEP is a worldwide network of over 150 colleges and universities in over 50 countries. CMU students who choose to study abroad for a semester or academic year on ISEP "exchange" will pay CMU tuition/fees and room/board during the semester/year abroad. Students may also choose to go "direct" and pay ISEP directly for their study abroad semester or year. Visit the ISEP website (https://www.isepstudyabroad.org) or contact the Office of International Student Admissions and Programs for more information.

**Testing Center**
Houston Hall, Room 123
970.248.1260

The Testing Center services include, but are not limited to, examinations required for admission to graduate and professional schools, examinations for proficiency and certification in nursing and teaching, and the credit by examination program. Assessment of academic skills in college level English and mathematics are provided through the center for potential students as well as those who already have been admitted.

**Transfer Services**
Admissions Office
970.248.1232

The Center for Transfer Services, within the Admissions Office, offers assistance to students transferring into Colorado Mesa University from other institutions. Services include preliminary transcript evaluation, education planning, transition to academic departments, and resolution of transfer problems. Transfer Services staff is available by appointment and for walk-ins. As part of the Admissions Office, the Center works closely with the Registrar’s Office to provide students with information about their transfer credits and how those credits may be applied.

**TRiO Student Support Services Program**
Houston Hall, Room 121A–D

TRiO Student Support Services assists participants in achieving their academic, personal and career goals. The purpose of TRiO is to increase the retention and graduation rates of its participants. The program assists enrolled students in a variety of areas including individualized tutoring, academic advising, counseling, financial aid advising, peer coaching, personal financial literacy and career development. To be eligible to apply to TRiO you must plan on finishing a four year degree and be a first generation college student and/or meet income qualifications and/or have a documented disability. TRiO is sponsored by the U.S. Department of Education and Colorado Mesa University. For more information, visit the TRiO Student Support Services (TRiO-SSS) (http://coloradomesa.edu/trio) website.

**Veteran Services**
Lowell Heiny Hall, Room 434-435
970.248.1739

Veteran Services certifies students who are utilizing veteran education benefits while attending CMU. Trained staff and student workers can answer questions related to applying for, transferring, and using these benefits. Veterans, dependents, and active duty military can also get help with registration and schedule changes. Tutoring is available through our PAVE (Peer Advisors for Veteran Education) program. Applications, to apply for the Veteran Laptop Project, may be picked up if you want to rent a laptop for the semester. Veterans and active duty students who are interested in our VA Work Study program can stop by to inquire about work study positions that are open at the VA Medical Center. For more information, visit the Veterans Services (https://www.coloradomesa.edu/veterans) website.

**WCCCC Student Services**
Building B, Room 102
970.255.2670
Student Services staff at Western Colorado Community College are available to assist students with a number of services including: academic advising, registering for classes, conducting campus tours, and answering questions about our one year certificates and two year associate of applied science degrees. Student Services also administers the concurrent enrollment program that allows high school students to take college classes. The office also administers the GOALS program, an academic support program for CMU.
UNIVERSITY-WIDE ACADEMIC OFFERINGS

- Academic Honors Programs (p. 78)
- Freshman Year Initiative (FYI) Program (p. 79)
- Maverick Provisional Program (MVP) (p. 80)
- Study Abroad and International Student Exchange Program (ISEP) (p. 81)
- Undergraduate Developmental Courses (p. 82)
ACADEMIC HONORS PROGRAMS

Program Description

As member of the National Collegiate Honors Council, Colorado Mesa University’s Honors Programs offer highly-motivated undergraduates enriched studies in their academic major. Based within each academic department, completion of honors requirements varies by academic program, but each includes opportunities for students to actively engage in more advanced study through coursework and a capstone project that can include research or creative work presented in a scholarly venue. Students completing a program’s academic honors requirements are recognized at CMU’s Commencement Ceremony.

At a minimum, students seeking participation in an Academic Honors Program must have earned at least 45 semester credit hours with a minimum 3.5 grade point average (GPA) at the time of application; academic programs may have additional admissions criteria. An application process occurs each spring semester, and interested students should contact the Academic Department Head for the application deadline. In addition to the credit hour and GPA qualifications, an applicant also should submit:

1. the application form; and
2. a summary of no more than one, single-spaced page that
   a. details the applicant’s scholarly background, community and/or University service, and academic awards; and
   b. describes briefly why s/he is applying for an academic honors program of study.

Admission to the Academic Honors Programs is competitive. Applications will be reviewed by faculty members in the appropriate program/department, and students will be notified on their acceptance status within the time frame indicated in the program-specific information.

Contact Information

Appropriate Academic Department Head for the major
FRESHMAN YEAR INITIATIVE (FYI) PROGRAM

Program Description
Colorado Mesa University offers first-year freshmen an opportunity to participate in a program designed specifically to enhance their first-year experience and ease the transition from high school to college. This program, Freshman Year Initiative (FYI), is offered to new freshmen prior to the start of each fall semester. For more information visit Freshman Year Initiative (https://www.coloradomesa.edu/admitted/fyi). The University's academic success course, UNIV 101, First Year College Success is the primary focus of the FYI Program. UNIV 101 is a two-credit elective course designed to introduce students to the resources of the University and to enhance their study skills in order to be better prepared for the expectations of college-level work. UNIV 101 is also offered during the fall and spring semesters.

Contact Information
Admissions Office
Welcome Center
970.248.1817

-or-

Academic Affairs Office
LHH 209
970.248.1881
MAVERICK PROVISIONAL PROGRAM (MVP)

Program Description
Colorado Mesa University offers first-year Provisional Baccalaureate (PB) freshmen an opportunity to participate in a program designed specifically to assist students in making a successful transition to college by learning strategies and skills they will need to successfully navigate their first semester. This program, the Maverick Provisional Program (MVP), is offered to new PB freshmen prior to the start of each fall semester. For more information, visit the MVP website (https://www.coloradomesa.edu/admitted/mvp).

The MVP program includes completion of the UNIV 100 course. This is a one-credit course designed to help PB students successfully transition to college life by introducing them to campus resources and teaching them study skills that will aid them in their transition. UNIV 100 is also offered during the fall and spring semesters.

Contact Information
Admissions Office
Welcome Center
970.248.1817

or

Office of Student Success
Albers Hall
970.248.1340
STUDY ABROAD AND INTERNATIONAL STUDENT EXCHANGE PROGRAM (ISEP)

Program Description
Colorado Mesa University offers exchange opportunities through both direct agreements with foreign institutions and through our partnership with the International Student Exchange Program (ISEP), a network of over 150 colleges and universities in over 50 countries. ISEP’s reciprocal exchange program allows CMU students to pay CMU tuition/fees and room/board during their semester or academic year abroad. Direct enrollment options are also available. ISEP students are fully immersed in an intercultural experience at their host institution and are able to explore the global opportunities of their chosen academic field. Visit the ISEP website (http://isep.org) for more information.

Contact Information
Director of International Student Admissions & Programs
Annie Gingerich
Rotary Hall
970.248.1802
UNDERGRADUATE DEVELOPMENTAL COURSES

Program Description
In order to maximize student success, Colorado Mesa University provides placement testing and college prep courses so that students can be assured they are prepared to do the college-level work required in their course of study. College prep courses in mathematics and English are designed for students needing to strengthen their skills before entering college-level classes or to provide extra support through writing (ENGC 092) and reading (READ 092) studios while taking entry-level classes. They are not intended for transfer purposes and will not fulfill degree requirements.

Contact Information
Office of Developmental Instruction
Library 110
970.248-1248
REGISTRATION POLICIES AND PROCEDURES

Students are encouraged to look up program requirements, view their DegreeWorks (https://www.coloradomesa.edu/registrar/degreeworks) degree audit report, and meet with an academic advisor prior to registration to determine courses needed for graduation. Not all courses available in this catalog are offered every semester or every year. Course schedule offerings for each semester, including registration instructions, are available through CMU’s Registration Information (https://www.coloradomesa.edu/registrar/registration) website. Students should register for classes via MAVzone, in person at IRIS, or the Registrar’s Office.

Policies and Procedures

Add/Drops & Schedule Adjustments

Students may make adjustments to their schedules according to specified deadlines and procedures published on CMU’s Important Dates (https://www.coloradomesa.edu/registrar/dates.html) website. Students dropping all of their courses should refer to the Withdrawal Procedures below.

Attendance

Students are expected to attend all sessions of each course in which they are enrolled. Failure to do so may result in a lowered grade, exclusion from class at the discretion of the instructor, or an administrative drop for non-attended courses. Students should not assume that non-attendance will result in an automatic drop from a class (see the Student Liability for Tuition & Fees above).

Instructors may drop any student who fails to attend the first two class meetings or fails to participate in an online class. Instructors may also initiate a drop or withdrawal for a student who fails to attend classes regularly. (“Drops” are up to 15% of class elapsed; “withdrawals” are up to the mid-point of the class.) Not all instructors will exercise this option; therefore, a student should not assume that non-attendance will result in an automatic drop from a class.

Administrative drops may be processed as a result of non-attendance in the first two weeks. Faculty will report attendance on affected students via the Satisfactory Academic Attendance System. Students will be notified via their CMU email account if they may be dropped from the course. Tuition, fees, and financial aid will be adjusted according to the credits remaining in the schedule.

Students who receive financial aid and cease attending classes may need to repay all or a portion of their financial aid.

Attendance by a Guest

Instructor approval is required in advance if a student wishes to bring an occasional guest (or child) to class. Otherwise, the person must be enrolled to attend.

Absences

It is the responsibility of the student to arrange in advance with instructors for making up missed classwork, assignments or tests incurred because of a student’s participation in required field trips, intercollegiate sports, or other trips. The coach, instructor, or other official whose activities require students to be absent from classes should give each participating student an “official” roster and schedule of events for the semester or other appropriate time span which may result in classes missed. The student is responsible for contacting the instructor of each of his/her classes affected at least 24 hours in advance of each class that will be missed.

Absences due to serious illness or strictly unavoidable circumstances may be excused if the instructor in charge of the course is satisfied as to the cause. In the case of an emergency, the student may contact the Office of the Vice President for Student Services, and that office will contact the student’s instructors to inform them of the emergency.

Being excused for an absence in no way relieves the student of responsibility for completing all work associated with the course to the satisfaction of the instructor. Being late to a class or leaving a class early is disruptive and is not acceptable except in extreme circumstances or with prior approval of the instructor.

Class Waitlists

Automated waitlists are available to students during the registration process. For general classes, when a seat opens, the first student on the list is emailed and given a time period with which the student can add the course. It is the student’s responsibility to check their CMU email for notification that his/her waitlisted class has opened. Failure to register within the designated time frame will result in the student being removed from the waitlist and the opportunity moving the next student on the list. The electronic waitlist is deleted after the first week of a sixteen-week class (1/16 of the class for non-standard parts of term).

Electronic waitlists for courses with co-requisites (lecture/lab combinations) are administered by the Registrar’s Office. The open spaces are given to the first student on the waitlist who can successfully be registered for both the lecture and lab. The waitlist on co-requisite courses will be cleared the Friday before the semester starts to ensure class/lab combinations fill.

The time limit to add from the waitlist will drop from 72 hours to 48 hours the week before school starts and down to 24 hours once classes begin. Students still wishing to add a closed class after the waitlist has been deleted must submit a complete Change of Schedule form with instructor’s signature to the Registrar’s Office prior to the add deadline (class census).

Family Educational Rights and Privacy Act (FERPA)

General Policy

The Family Educational Rights and Privacy Act (FERPA) provides students who are enrolled in an institution of postsecondary education the right to inspect, review, and challenge their educational records. Colorado Mesa University has the responsibility of maintaining and protecting the confidentiality of students’ official educational records. Colorado Mesa University also supervises the access to and/or release of educational records of its students. FERPA covers enrolled and former students, including deceased students. Students who are not accepted to Colorado Mesa University, or if accepted, do not attend, have no rights under FERPA. In addition, the University will not release personally identifiable records of students to any individual, agency or organization without the prior written consent of the student, except as provided by FERPA.
Directory Information

Colorado Mesa University may, without the consent of the student, release to persons outside the institution information designated as Directory Information in accordance with the provisions of FERPA. Directory Information shall include information in an educational record which would not generally be considered harmful or an invasion of privacy if released, including but not limited to:

1. Student name, address, telephone #
2. Date and place of birth
3. Major fields of study
4. Participation in officially recognized activities and sports
5. Weight and height of athletic team members
6. Photographs
7. Dates of attendance to include enrollment status (i.e., full time or part time)
8. Degrees and awards received
9. Most recent educational institution attended
10. E-mail address

Note: At any time, a student may request to the Registrar’s Office that Directory Information not be released to other parties without written permission. This request will be honored until the student requests in writing that Directory Information be disclosed.

Access to Student Educational Records

FERPA provides current students, former students, and parents of students who claim the student as a dependent (according to Internal Revenue Code of 1954, Section 152) for income tax purposes on their most current federal tax return the right to inspect, review, and challenge their educational records.

Students are permitted to inspect and review their educational records within a maximum of 45 days after the request is received. Students may not review financial information received from their parents or guardians; confidential letters and recommendations placed in their files prior to January 1, 1975; academic records containing information regarding other students; administrative, disciplinary, law enforcement, student health records, and/or records which are maintained in the sole possession of the maker.

While students who have a financial hold or past due account (all holds included) have a right to inspect their academic records, no transcript will be released to the student or other party until holds are reconciled. Bankruptcy, however, removes any financial obligations the student has to Colorado Mesa University. Please contact the Registrar’s Office with questions regarding this policy.

Golden Scholars

Colorado Mesa University provides individualized support, including academic and scheduling decisions, for persons 60 years and older. For more detailed information, go to the Golden Scholars (https://www.coloradomesa.edu/registrar/golden-scholars.html) website

Classes for Credit

Persons 60 years or older who wish to enroll for credit must submit required admission and registration materials to the Admissions Office. The same deadlines, costs, etc., as for other students will apply.

Classes for No Credit

Persons 60 years of age or older who do not wish to earn college credit may attend undergraduate resident instruction classes on a space-available, instructor-approved basis at Colorado Mesa University for a reduced fee.

Interested persons should obtain an application from the Golden Scholars (https://www.coloradomesa.edu/registrar/golden-scholars.html) website. Once admitted, registration for classes is at the beginning of the semester either through MAVzone or the Registrar’s Office. Courses needing special permission must have faculty approval on a signed Add/Drop/Withdraw Form (https://www.coloradomesa.edu/registrar/forms.html) submitted to the Registrar’s Office.

No-Credit Desired/Audit Courses

A student who desires to attend certain undergraduate classes regularly, but does not wish to receive grades or credit, should register for “no-credit desired” in these classes.

Tuition charges for classes taken under the “no-credit desired” category are the same as for classes taken for credit, but are not eligible for the COF voucher.

The deadline for a student to change from “no-credit desired/audit” to credit is the same as the deadline to add a class. The last day for a student to change from credit to “no-credit desired/audit” is the same as the deadline to drop a class.

Student Liability for Tuition & Fees

For all students, the act of registration automatically confirms attendance and the student will incur a financial obligation to the University. A registered student is responsible for paying his/her tuition and fees, regardless of whether or not he/she attend classes, unless the student officially withdraws from the University through the Registrar’s Office or drops all courses via the web prior to the deadlines published on the Colorado Mesa University website. It is the student’s responsibility to make a copy of the schedule reflecting any courses dropped via the web.

Withdrawal Procedures

Withdrawal from Individual Classes

Students may withdraw from individual classes (full semester duration, modular, and summer) via MAVzone prior to the start of the session (semester or modular). Once the session has begun, a withdrawal is permitted up to the mid-point of those classes. See the calendar on the CMU’s Important Dates (https://www.coloradomesa.edu/registrar/dates.html) website for details. After the session has begun, a Change of Schedule form, properly completed and with the instructor’s signature, is required and must be submitted to the Registrar’s Office by the deadlines published on the Colorado Mesa University website. Forms are available in the Registrar’s Office. Students who officially withdraw from a course prior to the date of mid-semester (see website for specific date) will receive a “W.” Students who withdraw after the deadline will automatically receive a grade of “F” except for cases with extenuating, non-academic reasons.

In addition to regular withdrawal from class(es) by the student, an instructor may initiate a withdrawal from class for failure to attend class, failure to turn in assignments over an extended period of time, or for disciplinary reasons. In such cases, the instructor must observe regular

**Emergency or Hardship Withdrawal from Individual Classes**

In the case of an event that qualifies as an emergency or hardship, students may request an Emergency or Hardship Withdrawal from an instructor after 50 percent, but before 75 percent of a course is completed. An emergency or hardship situation is defined as a significant, unexpected non-academic circumstance beyond the student's control and is granted at the discretion of the instructor. Failing, poor performance in a course, or other academic-related reasons do not constitute circumstances for an emergency withdrawal.

Students seeking an emergency withdrawal must complete the proper withdraw form, consult the instructor, and return the signed form to the Registrar's Office. Substantiating documentation (e.g., doctor's notes, court documents, death certificates) may be required at the request of the instructor.

**Semester Withdrawal from the University**

Students who desire to withdraw totally from Colorado Mesa University are advised to notify their faculty advisor or the Advising Center prior to obtaining the appropriate paperwork from the Registrar's Office.

Prior to the first day of the semester, students may totally withdraw from Colorado Mesa University by dropping all classes via MAVzone. If a student desires to totally withdraw after the semester has begun, he/she must submit a S (https://www.coloradomesa.edu/registrar/documents/Total%20Withdrawal%20Form.pdf)semester Withdraw form (https://www.coloradomesa.edu/registrar/documents/Total%20Withdrawal%20Form.pdf) to the Registrar's Office. See the calendar on the CMU's Important Dates (https://www.coloradomesa.edu/registrar/dates.html) website for details. The necessary withdrawal papers must be filled out by the student and officially signed by the appropriate staff. Grades of “W” will be given if done so before the deadline and if all withdrawal procedures have been satisfied for courses in which the student has not already received a grade (including F). Students totally withdrawing after the deadline will receive grades of “F.”

**Add/Drop/Withdraw Exceptions**

Exceptions to add, drop or withdrawal deadlines are rare. To be considered, evidence of substantial and unexpected non-academic circumstances outside the student's control must be provided. To file an Enrollment Appeal, the student must supply a written request explaining the situation along with supporting documentation to the Registrar's Office within six months after the end of the semester being appealed. At the end of the six month period, the registration record is considered final and no further registration or tuition adjustments will be considered. The Enrollment Appeals Committee will review the provided documentation, course feedback from faculty and related enrollment information pertinent to the request. Filing an appeal does not guarantee approval.

**Contact**

Registrar's Office
Lowell Heiny Hall Room 116
Colorado Mesa University
1100 North Avenue
Grand Junction, CO 81501-3122
Call 970.248.1555
GENERAL UNDERGRADUATE ACADEMIC POLICIES

Academic Integrity
All faculty, administration, and students of Colorado Mesa University have a responsibility for establishing and fostering an understanding of the importance of academic integrity. Academic dishonesty includes but is not limited to representing work of others as your own without proper acknowledgment, giving or receiving assistance on exams, papers, projects, or assignments unless authorized to do so; and misrepresenting your identity or allowing others to do so. Incidents should be reported to the instructor of the course if possible, or contact the Academic Department Head. Actions may be taken as a result of academic dishonesty. For more details, see the Maverick Guide (https://www.coloradomesa.edu/student-services/maverick-guide.html).

Academic Probation and Suspension

Good Standing
Signifies that the student is making satisfactory academic progress (see Academic Standards section) and is eligible to continue studies at Colorado Mesa University.

Academic Probation
Indicates a student is not in good standing and constitutes a warning to the student that the student’s scholastic achievement needs improvement or suspension will result. Students will be placed on academic probation if their cumulative grade point average at Colorado Mesa University falls below the minimums listed under GPA minimum.

Upon being placed on academic probation, students are permitted to continue studies for one semester, during which time they are expected to improve their cumulative grade point average to the minimum required levels. Those who succeed will be removed from academic probation.

Students on academic probation will remain on academic probation until they raise their cumulative grade point average to the required level. Once on probation, a student must maintain a minimum semester grade point average of 2.00 to avoid being placed on academic suspension. Additionally, students with a cumulative Colorado Mesa University grade point average of 2.00 or lower will be limited to 15 credit hours per semester.

Academic Suspension
Indicates the student is not in good standing and represents a temporary, involuntary separation of the student from the University for a minimum of one semester for failure to meet minimum academic standards.

Following an academic suspension, a student must apply for readmission to Colorado Mesa University. For degree programs that do not have separate admission policies, the readmission to Colorado Mesa University is also readmission to the degree program as long as the degree still exists. For degree programs having admission policies over and above admission to Colorado Mesa University, the student must also reapply to the degree program.

A student may be suspended from and readmitted to Colorado Mesa University a maximum of two times. Academic suspension, when imposed, becomes effective immediately upon the recording of grades at the end of the semester or summer term.

The first suspension shall be for a period of one semester; i.e., a student suspended at the end of fall semester may not attend the following spring semester; a student suspended at the end of spring semester may not attend the following summer and fall semesters. A student suspended at the end of summer term may not attend the following fall semester.

The second suspension shall be for a period of two semesters (i.e., a student suspended at the end of fall semester may not attend the next spring or fall semester; a student suspended at the end of spring semester may not attend the following fall or spring semester). A student suspended at the end of summer term may not attend the following fall or spring semester.

If the suspension is due to substantial non-academic circumstances outside the student’s control (i.e., major medical issues, serious car accident, etc.), the student may submit a letter of appeal with documentation to the Suspension Appeal Committee in the Registrar’s Office. Deadlines and appeal instructions are outlined in the Registrar’s Office website. Filing an appeal does not guarantee approval and the committee’s decision is final.

Students may not enroll in any credit classes whatsoever (including summer term) during the period of suspension.

Academic Renewal
A student who re-enrolls at Colorado Mesa University following an absence of at least five years may be eligible for academic renewal. If academic renewal is approved, none of the course credits and grades earned at Colorado Mesa University prior to the five-year minimum absence will be used for meeting graduation requirements or in determining the student’s grade point average.

Among the requirements to be eligible to apply/petition for “academic renewal” is that the student must have completed 24 academic course credits at Colorado Mesa University, excluding kinesiology courses and remedial courses below the 100 level, with a minimum grade point average of 3.00. The student must apply/petition in the Registrar’s Office no later than the semester following the completion of these 24 semester credit hours. Matriculation and/or course completion at other institutions during the five-year period of absence has no bearing on the application/petition.

Academic Standards
The scholastic standing of a student at Colorado Mesa University is computed on the basis of all courses attempted at Colorado Mesa University (unless academic renewal has been approved; see next page). Grades awarded from any other institution will not be utilized in the grade point average (GPA) calculation.

Colorado Mesa University uses the four point system in computing the grade point average of its students. Under this system, a student receives four quality points for each semester hour of A; three points for each semester hour of B; two points for each semester hour of C; one point for each semester hour of D, and no quality points for an F. An example follows:
### Hours Completed

<table>
<thead>
<tr>
<th>Semester Hours Completed</th>
<th>Points Awarded</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Semester Hours of A</td>
<td>12</td>
</tr>
<tr>
<td>3 Semester Hours of B</td>
<td>9</td>
</tr>
<tr>
<td>3 Semester Hours of C</td>
<td>6</td>
</tr>
<tr>
<td>3 Semester Hours of D</td>
<td>3</td>
</tr>
<tr>
<td>3 Semester Hours of F</td>
<td>0</td>
</tr>
<tr>
<td>15 Semester Hours</td>
<td>30</td>
</tr>
</tbody>
</table>

Thirty (30) points divided by 15 semester hours = 2.00 GPA

### Calculation of Grade Point Average for Graduation

Only the grades and credits awarded at Colorado Mesa University will be used in calculating the student's grade point average for graduation. Grades awarded from any other institution will not be utilized in the grade point average calculation.

The specific discipline area program requirements must be completed as required by the appropriate academic department with a cumulative grade point average of 2.00 or higher.

### Classification Status

A student is classified based on the number of semester hours successfully completed as follows:

<table>
<thead>
<tr>
<th>Semester Hours Completed</th>
<th>Student Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 30</td>
<td>Freshman</td>
</tr>
<tr>
<td>31-60</td>
<td>Sophomore</td>
</tr>
<tr>
<td>61-90</td>
<td>Junior</td>
</tr>
<tr>
<td>91+</td>
<td>Senior</td>
</tr>
</tbody>
</table>

### Course Repeat/Grade Improvement

Any course which is taken more than once for academic credit at Colorado Mesa University is done so only for “grade improvement” wherein academic credit is awarded only once and the best grade received is the one used to compute the student's cumulative grade point average and to fulfill requirements for the degree.

The lower grade will be excluded from the earned hours for the term taken and will be excluded from the GPA calculations. This may cause a negative effect on financial aid, Veteran benefits, athletic eligibility, scholarships, and other areas that use earned hours to determine student benefits. It is the student's responsibility to work with the appropriate departments to consider options and potential consequences prior to repeating the course.

Exceptions to this policy are DANC (performing dance), MUSL (music lessons) and MUSP (performing music) classes, each of which may be taken twice for academic credit; Independent Studies (a maximum of six semester credit hours may be taken for credit – see the Independent Study section in this catalog); and in some cases Topics, Practica, Seminars, Internships, Structured Research, and Cooperative Education. See program sheets and the appropriate department head or director for these exceptions.

Additionally, program-specific exceptions to retaking courses for grade improvement may exist regarding courses in the major and may supersede the University’s general policy. Students should check with the head of the academic department for their major to determine if there are any restrictions for repeating a course.

The option of repeating a course for grade improvement is available to a student only if the course s/he wishes to repeat is still offered at Colorado Mesa University and is scheduled to be offered in the semester in which the student wishes to take it.

Courses taken at Colorado Mesa University may not be repeated at another university for improvement of the original grade and courses taken at another university may not be repeated at Colorado Mesa University for improvement of the original grade.

### English and Mathematics Requirements

Colorado Mesa University students are required to complete the Essential Learning Core English and Mathematics requirements prior to exceeding 60 semester credit hours. Students should take the courses as freshmen. Those who need developmental courses before they are ready to enroll in the required courses should enroll in the developmental courses their first semester at Colorado Mesa University. Any required English and mathematics developmental courses must be completed with a “C” or higher. Students who are completing 60 hours of course work will have a registration hold placed on their account blocking them from enrolling in any additional courses until they have passed the required courses. Students are encouraged to work with the Registrar's office staff to enroll in courses. Exceptions to this policy require the written permission of the appropriate department head (Language, Literature and Mass Communication or Computer Science, Mathematics and Statistics) or their designee.

### GPA Minimum

Students are considered to be making “satisfactory progress” toward a degree if they attain a cumulative GPA consistent with the table listed below. Incomplete (“I”) and In Progress (“IP”) grades are tentative grades and until changed are not considered in computing either the cumulative grade point average or the grade point average for the particular semester concerned. “W” hours do not count as hours attempted or in the GPA. (See section on Withdrawal Procedures)

<table>
<thead>
<tr>
<th>Cumulative Credit Hours</th>
<th>Cumulative GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 15</td>
<td>1.70</td>
</tr>
<tr>
<td>16 - 30</td>
<td>1.80</td>
</tr>
<tr>
<td>31 - 45</td>
<td>1.90</td>
</tr>
<tr>
<td>46 and above</td>
<td>2.00</td>
</tr>
</tbody>
</table>

Students failing to achieve the minimum GPAs listed above will be placed on academic probation. The student will remain on probation until the minimum GPA is achieved, providing the student earns a minimum semester GPA of 2.00. If a student already on academic probation fails to earn a semester GPA of 2.00, the student will be placed on academic suspension. The student will be prohibited from further attendance at Colorado Mesa University for a minimum of one semester (see Academic Probation and Suspension section.)

A student must achieve a cumulative grade point average of 2.00 or higher to graduate at the certificate, associate, or baccalaureate level. Some programs have additional GPA requirements to remain in and graduate from that program. See Programs of Study section and subject program sheet for specifics.
Grading System

Grades at Colorado Mesa University are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Excellent to superior</td>
</tr>
<tr>
<td>B</td>
<td>Good to excellent</td>
</tr>
<tr>
<td>C</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>D</td>
<td>Passing but not satisfactory</td>
</tr>
<tr>
<td>F</td>
<td>Fail</td>
</tr>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>IP</td>
<td>In progress</td>
</tr>
<tr>
<td>W</td>
<td>Withdraw</td>
</tr>
<tr>
<td>NC</td>
<td>No credit</td>
</tr>
<tr>
<td>P</td>
<td>Pass</td>
</tr>
</tbody>
</table>

Incomplete ("I") grades are temporary grades given to a student only in an emergency case and at the discretion of the instructor.

At the end of the semester following the one in which an "I" is given, the "I" becomes the grade that is submitted by the instructor to the Registrar’s Office. If the instructor does not submit a grade by the deadline for that semester, the grade becomes an "F." A grade of "I" given spring semester must be addressed by the end of the following fall term.

Extension of the time to complete work may be made in exceptional circumstances at the discretion of the instructor. A student with an "I" grade, however, may not change the "I" by enrolling in the same course another semester.

Grades of "P" are passing grades and are not included in the GPA. "P" grades at the undergraduate level are only used for zero credit hour courses, sub-100 level labs or non-traditional credits such as CLEP, AP, military credits, etc., and may be applicable toward graduation.

Honor Lists

President’s List

Made up of those students who earn a GPA of 4.00 while enrolled in a minimum of 12 semester hours for a particular semester.

Dean’s List

Includes students who achieve a grade point average of between 3.50 and 3.99 while enrolled in a minimum of 12 semester hours for a particular semester.

The lists are based on semester grades, not cumulative grade point averages. Regardless of grade point average, a student who receives a failing grade ("F") in any course is not eligible for the Dean’s List.

To graduate with Honors or Distinction, the student’s cumulative grade point average will be used in the determination of inclusion in the Honors/Distinction categories listed below. Each year during formal commencement ceremonies Colorado Mesa University recognizes the following categories of academic achievement:

- For Associate Degrees:
  - With Distinction—Associate degree graduates with cumulative grade point averages of 3.50 to 3.74.
  - With High Distinction—Associate degree graduates with cumulative grade point averages of 3.75 to 4.00.

The grade point average for honors/distinction at commencement does not include final-term, in-progress courses. The ultimate honors/distinction recognition to appear on the permanent record/transcript will reflect the appropriate category based on the inclusion of the final-term course grades required for the completion of degree requirements.

Honor Societies

Alpha Chi

Membership in Alpha Chi is the highest academic honor which Colorado Mesa University can bestow upon its scholars. To be eligible for election, students must have completed at least 75 semester hours toward the baccalaureate degree with a GPA of 3.75 or better and be fully recognized by their faculty and department heads as having the qualities of character pertaining to the true scholar. Alpha Chi is the second oldest and second largest of those national scholastic honoraries which elect members from all academic fields.

Alpha Phi Sigma

Alpha Phi Sigma is the national honor society in criminal justice. For membership in Alpha Phi Sigma, a political science major or other student who has completed at least four classes in criminal justice must maintain an overall GPA of 3.20.

Beta Beta Beta

Beta Beta Beta is the National Honor Society in Biology at Colorado Mesa University. For full membership in Beta Beta Beta, a biology major must have completed at least three classes in biology and have a minimum GPA of 3.00. With these qualifications, a student may be nominated for membership.

Kappa Mu Epsilon

Kappa Mu Epsilon is an honor society for students of mathematics. Its chapters are located in colleges and universities of recognized standing which offer a strong mathematics major. The nominated and inducted members are selected from students of mathematics and other closely related fields who have maintained high standards of scholarship, have professional merit, and have attained academic distinction. The local chapter, Colorado Delta, is a working organization throughout the academic year. It functions as an integral part of the Computer Science, Mathematics, and Statistics Department of Colorado Mesa University.

Lamba Nu

Lamba Nu is the National Honor Society for the radiologic and imaging sciences. Its objectives are to: foster academic success at the highest academic levels, promote research and investigation in the radiologic and imaging sciences, and recognize exemplary scholarship. Membership requires students complete one semester in the BSRS program and maintenance of a 3.0 GPA in program coursework.

Nu Kappa Chapter, Sigma Theta Tau International

Nu Kappa Chapter, Sigma Theta Tau International, recognizes achievement in nursing. The purposes of the society are to recognize
superior achievement and leadership qualities, foster high professional standards, encourage creative work and strengthen commitment to the ideals and purposes of the profession. Students must have a minimum GPA of 3.00 and rank in the upper 35 percent of their class to be eligible for membership. Nurses from the community may also be nominated for membership if they have demonstrated marked achievement in nursing education, practice, research or publication.

**Phi Alpha Theta**

Phi Alpha Theta is the international honor society in history. The objective of this professional honor society is the promotion of the study of history through the encouragement of research, good teaching, publication, and the exchange of learning and thought among historians. To be eligible for membership, a student must have completed twelve or more hours of history with a minimum GPA in history of 3.10 and a minimum overall GPA of 3.00.

**Pi Sigma Alpha**

Pi Sigma Alpha is the national honor society in political science. For membership in Pi Sigma Alpha, a political science major or other student who has completed at least four classes in political science (three at the 300 or 400 level) must maintain an overall GPA of 3.00 and a 3.2 GPA in political science.

**Psi Chi**

Psi Chi, the national honor society in psychology, is open for membership to students with either a major or minor in psychology. Minimum qualifications for membership are as follows: rank in the top 35% of one’s class with a minimum 3.00 overall GPA; 3.25 psychology GPA; completion of 9 semester hours in psychology; and completion of at least three semesters of university coursework. The purpose of Psi Chi is to promote and maintain excellence in scholarship in the field of psychology and to advance the science of psychology.

**Sigma Gamma Epsilon**

Sigma Gamma Epsilon, a national honor society for the earth sciences, has for its objectives the scholastic and scientific advancement of its members and the extension of friendship and assistance among colleges, universities, and scientific schools for the advancement of the Earth Sciences. Membership in Zeta Nu Chapter of Sigma Gamma Epsilon is open to continuing Earth Science majors with at least twelve credit hours of Earth Science coursework completed with a minimum GPA of 3.00. Qualified students are reviewed and may be nominated each semester.

**Sigma Pi Sigma**

Sigma Pi Sigma is the national honor society in physics. For membership in Sigma Pi Sigma, a physics major or other student who has completed at least three classes in physics must maintain an overall GPA of 3.00 and a 3.25 GPA in physics. A qualifying student may then be nominated for membership by the combined physics faculty.

**Sigma Tau Delta**

Sigma Tau Delta, the national English honor society, endeavors to encourage, promote, and recognize scholarship and achievement in English language and literature. Membership is open to sophomore, junior, and senior English majors with a minimum GPA of 3.00 in English.

**Upsilon Pi Epsilon**

Upsilon Pi Epsilon is the national honor society for computer science.

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**Independent Study**

Independent study permits the motivated student an opportunity to expand his or her body of knowledge beyond the scope of the standard curriculum. It endeavors to foster qualities of self-initiative, organizational skills, self-discipline and independent thinking. It is expected that the student will engage in intensive study and research of the topic.

Independent study does not satisfy essential learning requirements or specific course requirements. Independent study hours may be taken for elective credit. Independent study is available primarily to students at the junior and senior levels with a minimum GPA of 2.75 except in certain certificate and AAS programs.

The work is to be completed within one semester from the initiation date and is limited to a total of six or fewer semester credit hours taken at Colorado Mesa University.

The department head or director of the academic department issuing credit must approve any exceptions.

An Individualized Learning Contract, available from the academic department head, is to be initiated by the student desiring independent study in consultation with a supervising instructor. The contract must include justification, description, monitoring, and evaluating procedures, and the approval by the instructor and department head.

Further restrictions apply in some disciplines. Students wishing to take an independent study should check with the appropriate instructor and/or department head or director well in advance.

With permission of the instructor, students may register for regular classes but do the work independently, or on their own. This is not the same as “Independent Study.” Students who have made prior arrangement with the instructor will still register for the regular course, and not for Independent Study.

**Laboratories**

Many courses at Colorado Mesa University have both lecture and laboratory components to a single course. The class and laboratory portions are technically treated as different courses with distinctive numbers and individual grades. A student is usually required to be concurrently enrolled in both class and laboratory. Credit applied toward graduation cannot be earned for the class or laboratory unless credit is earned in both.

**Learning Progress Evaluation**

The evaluation of a student’s learning progress in a course is considered to be a planned and continuous process and consists of a variety of activities including judgment, observation, testing, etc. Final examinations are a part of the evaluation process.

Article 13 of House Bill 1187, enacted in July of 1985 by the Colorado General Assembly, established that institutions of higher education in Colorado are to be held accountable for demonstrable improvements in student knowledge, capacities, and skills between entrance and graduation.

Students are required by Colorado Mesa University to take part in testing and other programs deemed necessary for compliance with this legislation. Students who do not abide by these requirements may
be denied registration and/or graduation privileges. Portions of the assessment process may require time outside the normal class periods.

Maverick Milestone

The Maverick Milestone (ESSL 290) and Essential Speech (ESSL 200) courses will be taken concurrently on a student’s first attempt unless special permission is granted by the Assistant Vice President of Academic Affairs to do otherwise. A student may take the courses separately only for purposes of grade improvement or when the student wishes to take ESSL 290 for elective credit after the successful completion of the EL Capstone requirement (ESSL 290 and ESSL 200). ESSL 290 and ESSL 200 are technically treated as distinct courses with distinct grades. However, credit applied toward graduation requirements cannot be earned for either ESSL 290 or ESSL 200 until satisfactory credit (passing) is earned in both.

Students who are completing 75 hours of course work will not be permitted to enroll in any additional courses until they have passed both ESSL 290 and ESSL 200. Exceptions to the policy require the written permission of the Assistant Vice President of Academic Affairs or designee.

Non-Traditional Credit

Non-traditional credit can be earned from sources such as the following:

Military Credit

Qualified veterans and service members with a discharge under conditions other than dishonorable are eligible to receive credit. The credit for learning gained in the U.S. Military is based on the American Council on Education (ACE) Military Guide credit recommendations found on a Joint Services Transcript (JST) or a Community College of the Air Force Transcript (CCAF). Military credit is evaluated by the Registrar’s Office when official copies of transcripts are received directly from JST or CCAF. Course equivalencies are based on the ACE recommendations, and current courses offered at Colorado Mesa University, with academic department input on specialization courses within the major. A maximum of 30 semester credit hours to be used toward lower and upper division courses may be accepted. Students with military credit should meet with the Veteran Services Office to discuss selecting a program of study that optimizes use of military credit for graduation. Contact the Registrar’s Office for more information.

Advanced Placement Program

Students wishing academic credit or advanced placement for college level work done while enrolled in high school should take the appropriate College Board Advanced Placement examination. These exams are administered several times each year at numerous locations throughout the United States. College Board Advanced Placement examination scores currently accepted by Colorado Mesa University are: Studio Art-General; Studio Art-Drawing; Art History; Biology; Chemistry; Computer Science A; Computer Science AB; Microeconomics; Macroeconomics; English Literature & Composition; English Language & Composition; French Language; French Literature; German Language; German Literature; Latin-Virgil; Latin Literature; Spanish Language; Spanish Literature; Government & Politics-United States; Government & Politics-Comparative; US History; European History; World History; Human Geography; Mathematics-Calculus AB; Mathematics-Calculus BC; Music Theory; Physics B; Physics C-Mechanics; Physics C-Electricity & Magnetism; Psychology; and Statistics.

The Registrar’s Office will supply information concerning the scores required for earning academic credit in the various subject areas.

Credit by Examination and Department Challenge Exams

Students attending Colorado Mesa University and Western Colorado Community College may earn college credit by examination in certain subject areas through the College Level Examination Program (CLEP) and DANTES Examination Program. The Registrar’s Office will supply information concerning the scores required for earning academic credit in the various subject areas.

Credit may also be earned by subject matter tests offered through various departments at Colorado Mesa University and Western Colorado Community College through departmental challenge exams. See the specific department for more information on possible challenge exam options. Students must be accepted to Colorado Mesa University before the approved CLEP and challenge exam credits will be recorded as transferable credit.

International Baccalaureate Program

Colorado Mesa University recognizes the International Baccalaureate Diploma Program and awards credit to qualifying high school students based on their examination scores. For policy details contact the Registrar’s Office or check the CMU website.

Credit for Prior Learning

The practice of awarding credit for college-level prior learning is based upon the belief that education which builds on, interprets, and incorporates past and present knowledge is the education that is most meaningful to the student. Colorado Mesa University and Western Colorado Community College recognize that students may have gained college-level knowledge and competencies through their work and life experiences which can be incorporated into their academic programs.

The development of a portfolio to demonstrate competency acquired through work or other life experience can be pursued for many technical or applications-based areas. Students wanting to pursue this option must enroll in UNIV 105 Competency Portfolio Development. The portfolio will be produced in collaboration with faculty from the desired department. Students must obtain course syllabi and complete the application for prior learning credit to participate in the Portfolio Development Workshop. For policy details see the Registrar’s Office or check the CMU website.

Cooperative Education, Internships, Practica

Cooperative education is a working partnership in which an educational institution such as Colorado Mesa University or Western Colorado Community College joins with an employer in a structure relationship. The basic purpose is that of providing a means whereby a student can combine college study with a work experience which is under employer supervision to fulfill the total requirements of a particular educational program.

Cooperative education is a three-way partnership involving the student, the employer and the university. There is a great deal of difference between cooperative education and simply holding a job. Cooperative education is based on learning objectives which are related to the student’s academic discipline and are established in cooperation with student, the employer, the faculty advisor, and others at Colorado Mesa University.

Typically, cooperative education is open to junior and senior students. Interested students should consult with their faculty advisor and
academic department head or director. There are limits on the number of credits which will apply towards a degree. Graduate students should consult the Graduate Policies and Procedures section of this catalog.

**Non-traditional Credit Guidelines**

The faculty and department head of each department determine if and under what conditions non-traditional credit is allowed. If allowed, the following limits apply:

1. Military credits – maximum of 30 semester credit hours to be used toward lower and upper division courses as deemed appropriate.
2. CLEP, DANTES & Credit by Examination/Department Challenge Exams – maximum of 30 semester credit hours for a baccalaureate degree, 20 semester credit hours for an Associate of Applied Science degree, 12 semester credit hours for an Associate of Arts or an Associate of Science degree, and 6 semester credit hours for a technical certificate. Students may not earn CLEP or DANTES credit in a class in which they have previously been enrolled including a class from which the student withdrew, so that the transcript shows a W, WP or WF. Students must receive approval and follow the procedure to challenge a course, including enrolling in that course. See the Registrar’s Office for a copy of the procedure.
3. Advanced Placement – maximum of 30 semester credit hours for a baccalaureate degree, 15 semester credit hours for an associate degree, or six semester credit hours for a technical certificate.
4. International Baccalaureate – The subject exams and score shown on each student’s transcript will determine the number of semester credit hours allowed. Maximum of 30 semester credit hours for a baccalaureate degree or 15 semester credit hours for an associate degree.
5. Competency Credit/Credit for Prior Learning – maximum of 30 semester credit hours toward a baccalaureate degree or 25 percent of the total semester credit hours required for an associate degree at the prerogative of the department head. A student may earn the maximum of 25 percent of the total semester credit hours required toward the degree or certificate through portfolio assessment. Other restrictions may apply. See the Registrar’s Office for details and guidelines or CMU website coloradomesa.edu/eso/pla.html.
6. Cooperative education, Internships, Practica, etc. – maximum of 15 semester credit hours may be used to satisfy the required academic semester credits for a baccalaureate degree and 6 semester credit hours may apply toward an Associate of Arts or Associate of Science degree. A maximum of 15 semester credit hours may apply toward the 40 upper division hour requirement. No restriction on the maximum number of semester credit hours above and beyond any degree requirement is intended. These restrictions do not apply to the Associate of Applied Science degree or technical certificate programs.

The total combination of non-traditional credit cannot exceed:

1. 30 semester credit hours for a baccalaureate degree;
2. 15 semester credit hours for an Associate of Arts or Associate of Science degree;
3. 20 semester credit hours for an Associate of Applied Science degree;
4. Twenty-five percent of the semester credit hours required for a technical certificate.

**Student Appeals**

Students have the right to appeal actions or sanctions (such as those relating to grades or academic dishonesty) and should begin the process by meeting with the course instructor. The Maverick Guide (https://www.coloradomesa.edu/student-services/maverick-guide.html) provides a detailed explanation of Academic Integrity, Academic Dishonesty, Student Appeals, Grade Appeals and related processes. The University provides that all student concerns, grievances, and appeals that are not covered under a specific policy may be directed either to the Office of the Vice President for Academic Affairs or to the Office of the Vice President for Student Services.

**Student Complaint Policy**

An official complaint is when a student alleges:

1. the institution has violated local, state, and/or federal law;
2. a breach of contract e.g. failure to meet institutional obligations as presented in a recruiting material document, application for enrollment or student housing, course syllabus, etc.; or,
3. a passive response by the institution to a complaint by a student that resulted in material damages to the student.

Disagreement with an administrative decision, or the outcome of an appeal of that decision, is not a complaint unless it alleges improper, unfair, or arbitrary treatment. The complaint must be in writing with an identifiable signature and is not already covered by another existing policy or process (see attached table).

A student wishing to file a complaint should do so as promptly as possible following the alleged violation, but by no later than February 15 for a concern occurring during the prior fall semester, June 15 for the prior spring semester, and September 15 for the prior summer term. Timely initiation of a complaint rests with the student. The complaint should be in writing and signed by the complainant or submitted electronically from a Colorado Mesa University student email address. The complaint should

1. describe the issue that is the basis for the complaint, including the steps have been taken to informally resolve the problem, and
2. include any relevant documents the student would like to be reviewed as part of the complaint process.

Depending on the nature of the violation, the complaint should be sent to the Office of the:

- Vice President for Academic Affairs or the Vice President for Community College Affairs if the concern is academic-related;
- Vice President for Finance and Administration if service-related;
- Vice President for Student Services if behavior or conduct related; or
- Director of Human Resources if an alleged violation of discrimination in employment or education opportunity.

For the full complaint policy and links, go to the Student Complaint Policy (https://www.coloradomesa.edu/academic-affairs/documents/policies/StudentComplaintPolicy_Final.pdf) on the Academic Affairs policies website.

**Student Conduct**

Colorado Mesa University is a community consisting of students, faculty, support staff, and administrators. The University does not attempt to define all “student conduct.” It relies on students to assume the
responsibility and obligation of conducting themselves in a manner compatible with the purpose of the University as an educational institution and the community as a place of residence. In addition to University rules and regulations, all students are subject to the same local, state, and federal laws as non-students and are beneficiaries of the same safeguards of rights as non-students.

The Student Code of Conduct can be found in its entirety published in the Maverick Guide (https://www.coloradomesa.edu/student-services/maverick-guide.html). Questions relating to student conduct may be referred to the Office of the Vice President for Student Services, located in Lowell Heiny Hall 107.

**Student Load and Limitations**

The normal student load is 15 semester hours (some disciplines require a higher number). The minimum load required for a student to be recognized as a full-time student is 12 semester hours. If students register for fewer than 12 semester hours, they are classified as part-time students.

Students receiving scholarships and/or financial aid are generally expected to complete 12 hours of credit courses each semester. In order to receive full Veteran’s Administration financial benefits, veterans must be enrolled in 12 or more semester hours each semester of attendance, for the entire semester.

It is recommended that students in good academic standing limit their academic load to 18 semester hours or fewer. Students must obtain a signature from their advisor before attempting an overload between 19-21 semester hours in a regular semester or between 10-12 semester hours in a summer term. Students interested in enrolling for more than 21 hours in a regular term or more than 12 in a summer term must submit, in writing, their plan for success during the overload and obtain signature approval from their faculty advisor. Students must then obtain signature approval from the department head with oversight over their degree program and the Vice President of Academic Affairs (or designee). Students earning a cumulative Colorado Mesa University grade point average of 2.00 or lower will be limited to 15 credit hours in the fall/spring semesters.

**Student Preparation/Academic Engagement for Class Meetings**

In compliance with the requirements of the U.S. Department of Education and consistent with the expectations of the Colorado Commission on Higher Education, Colorado Mesa University defines a contact hour as 50 minutes. Thus a one credit hour, 15-week course equates to 750 minutes (15 contact hours) of academic engagement plus a minimum of 1500 minutes (30 hours) of student preparation.

An undergraduate student should expect to spend on an individual course a minimum of two hours outside the classroom for every hour in the classroom. The outside hours may vary depending on the number of credit hours or type of course. This expectation applies to all courses, regardless of wherever or however the instruction is delivered. More details are available from the faculty member or department office and in CMU’s Curriculum Policies and Procedures Manual.

“Academic engagement” may include, but is not limited to, submitting an academic assignment, listening to class lectures or webinars (synchronously or asynchronously), listening to a guest speaker, taking an exam or quiz, completing a writing assignment, an interactive tutorial or computer-assisted instruction, attending a study group that is assigned by the institution, conducting research (e.g., for a project, play production, etc.), contributing to an academic on-line discussion, initiating contact with a faculty member to ask a question about the academic subject studied in the class, conducting laboratory work, completing an externship or internship.

“Student preparation” may include, but is not limited to, homework such as reading and study time, completing outside assignments and projects, practice for performance, writing lab reports, attending mandatory theatre and music performances, observing professional meetings (e.g., school board meetings for education courses), and attending faculty seminars and colloquia.
REQUIREMENTS FOR
UNDERGRADUATE DEGREES
AND CERTIFICATES

Students are expected to assume responsibility for planning their academic programs in accordance with University and department policy. Students are responsible for obtaining information about program requirements via this catalog in the Program A-Z (p. 743) section, at the beginning of their work detailing the specific requirements for the degree or certificate being pursued. If enrolled at CMU as a degree-seeking student prior to Summer 2018, use the left side menu on the prior year’s program sheets (https://www.coloradomesa.edu/academic-program-sheets) website. Students are urged to consult with their advisors. The University assumes no responsibility for difficulties arising when students fail to establish and maintain contact with their faculty advisor or department head. Students are ultimately and solely responsible for knowing the requirements for a particular degree and for fulfilling those requirements.

Contents

• Requirements for Degrees (p. 94)
  • Requirements for Baccalaureate Degrees (p. 95)
    • Essential Learning, Lower- and Upper-Division Requirements (p. 97)
  • Requirements for Associate Degrees (p. 102)
  • Requirements for Undergraduate Certificates (p. 103)
• Colorado Statewide Guaranteed Transfer Courses (p. 104)

Contact

Registrar’s Office
Lowell Heiny Hall Room 121
Colorado Mesa University
1100 North Avenue
Grand Junction CO 81501-3122
Call 970.248.1555
REQUIREMENTS FOR DEGREES

Some requirements may vary with the program and academic department. Students must abide by the rules set forth in the program sheet which may be obtained from the department offering the degree they are seeking or in the specific program as listed in Programs A-Z (p. 743). If enrolled at CMU as a degree-seeking student prior to Summer 2018, use the left side menu on the prior year’s program sheets (https://www.coloradomesa.edu/academic-program-sheets) website.

A useful advising tool for students is DegreeWorks, an online degree audit reporting tool available via Mavzone. DegreeWorks utilizes the published program sheets and the graduation requirements printed in the catalog to create an electronic list of required courses and options in each degree. Any discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Checklist and Commencement Deadlines

Graduation documents are due the semester prior to completion of all coursework and are available through the Registrar’s Office. Candidates for all degrees must accomplish the following:

1. Meet with their advisor to create the final graduation plan which outlines how all requirements will be met by the desired graduation date. Depending on department requirements, the plan should be entered on the DegreeWorks Plans tab titled “Final Graduation Plan” or be submitted on a “Graduation Planning Sheet” form to the advisor and the Registrar’s Office. The plan must be approved by the advisor either in DegreeWorks or a signature on the planning sheet.
2. Submit the “Intent to Graduate” form to the Registrar’s Office by:
   - October 1 for May graduates.
   - March 1 for December graduates.
3. Register for all needed courses and complete all requirements for each degree sought.

The Registrar’s Office will use the DegreeWorks report to verify degree progress for all students. It is the student’s responsibility to discuss any questions or concerns from their DegreeWorks reports with their advisor or academic department head. Perceived DegreeWorks errors should be reported to the Registrar’s Office for official investigation.

Commencement Ceremony Requirements and Deadlines

Students are eligible to participate in a commencement ceremony based on which semester they complete their graduation requirements. It is the student’s responsibility to ensure that they are enrolled in the necessary courses or have a plan on file with the Registrar’s Office using the “Graduation Planning Sheet” or DegreeWorks Plan which outlines how all requirements will be met. In the four months prior to the ceremony, students must be on track to complete all requirements to remain eligible to participate in the commencement ceremony.

<table>
<thead>
<tr>
<th>Students who complete graduation requirements during the:</th>
<th>Are eligible to participate in the:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer semester 1</td>
<td>December commencement</td>
</tr>
<tr>
<td>Fall semester</td>
<td>December or May commencement</td>
</tr>
<tr>
<td>Spring semester</td>
<td>May commencement</td>
</tr>
</tbody>
</table>

1 Summer graduates may participate in the May ceremony only if they are registered by April 15 for one or more summer courses that do not exceed six credits or an internship course that does not exceed 12 credits. The student must be able to finish the summer coursework by the end of the summer term.

Declaring a Major

The major students list on their application is considered for admission purposes. Once admitted, students may change their major. In order to be admitted/declared into the major, the major must be accepting students, and students must meet the requirements to be admitted to the degree. Some majors have additional admission requirements. Students must visit the department for more information. Students with an undeclared major are required to declare a major or meet with an academic advisor prior to registration.

Students must contact the academic department associated with their desired major/minor to declare or change their major/minor and to be assigned a faculty advisor. Once students have declared a major/minor, they will need to obtain a program sheet online or from the academic department.

Applicable Catalog and Degree Requirements

Students must follow the Colorado Mesa University graduation requirements from the catalog of the same academic year as the program sheet for the declared major. This is true provided that

1. students remain “continuously enrolled” until graduation and
2. the degree, emphasis or certificate area is still accepting students into the program when students officially declare their majors.

Students shall be considered to be “continuously enrolled” if there is no interruption in enrollment of more than one semester at any given time (excluding summer sessions). If an interruption in enrollment occurs so that students are no longer “continuously enrolled” as described above, the program sheet and catalog requirements applicable at the time of reenrollment shall apply.

If a candidate for a degree is unable to meet the major requirements because of some unforeseen circumstance, it is the candidate’s responsibility to petition for an exception from his or her faculty advisor or department head.

Assessment of Student Learning

Colorado Mesa University is committed to providing quality education for students across all disciplines through a variety of campus activities. One means of continuously improving the quality of University offerings is through identifying specific learning outcomes that reflect what a graduate should know and be able to do, and then assess how well students meet those outcomes.

Assessment of student learning in academic programs is one of the processes faculty use to measure student progress in the knowledge...
and skills necessary to be successful. All CMU students are expected to
engage in assessment activities, such as submitting course assignments,
taking examinations, developing e-portfolios and/or completing surveys.
These assessments center on specialized knowledge and applied
learning in each major, in addition to intellectual skills that include
communication, computation, and critical thinking. Student learning
outcomes specific to each program of study can be found on the relevant
program sheet and supporting course syllabi. Beyond the classroom,
a second part of assessment involves student learning in co-curricular
activities such as student life or service learning.

CMU students should plan to participate in assessment efforts and
provide honest feedback that will assist the University to enhance the
quality of its programs. More specifically, learning outcome data are
compiled to assist faculty and staff members in making improvements in
majors at all levels, Essential Learning (General Education) coursework,
and student life programming. Finally, aggregated assessment results are
reported to members of the CMU community, accreditation organizations,
and state and federal agencies.

Deficiencies
All academic and financial deficiencies must be removed (i.e., incomplete
grades and/or unpaid financial obligations) before the degree or
certificate is conferred.

Final Credit Requirements Taken at
Another University
Colorado Mesa University generally accepts academic credits from
regionally accredited colleges and universities. When a student intends
to earn a Colorado Mesa University degree, but the final credits for
completing that degree program are earned at another institution, the
following restrictions apply:

1. Specific approval of the proposed institution and courses must be
given by the appropriate academic department head and the Office
of the Registrar at Colorado Mesa University during the time of
the student’s last enrollment at Colorado Mesa University, and the
student must receive a grade of “C-” or higher in each course. Some
departments may have higher requirements.

2. No more than 30 semester hours of final credit will be accepted in
transfer.

Requirements for Baccalaureate
Degrees
• Bachelor of Applied Science (BAS)
• Bachelor of Arts (BA)
• Bachelor of Business Administration (BBA)
• Bachelor of Fine Arts (BFA)
• Bachelor of Music (BM)
• Bachelor of Music Education (BME)
• Bachelor of Science (BS)
• Bachelor of Science in Nursing (BSN)
• Bachelor of Science in Radiologic Sciences (BSRS)
• Bachelor of Social Work (BSW)

Credit Hour Distribution
Colorado Mesa University offers baccalaureate degrees in the traditional
liberal arts and sciences disciplines and professional fields of study.
Candidates for baccalaureate degrees must complete, in general, a
minimum of 120 semester credit hours for a baccalaureate degree
program. The distribution of the credit hour requirement is:

• Essential Learning (General Education):
  • Essential Learning Core Courses: 31 semester credit hours
  • Essential Learning Capstone: 4 semester credit hours
Consists of the Maverick Milestone and Essential Speech (co-
requisites)
• Wellness Requirement:
  • 2 – 3 semester credit hours (varies by major)
• Major Requirements:
  • 36 – 48 semester credit hours in the program discipline; some
professional programs may exceed 60 hours when including
foundation courses
• Degree Category Requirements:
  • 3 – 6 semester credit hours
    • BS and BSN degrees require 3 semester credit hours.
    • BA and BSW degrees require 6 semester credit hours.
Some BFA degrees require 3 or 6 semester credit hours. This
requirement does not apply to the BAS, BBA, and some BFA
degrees. Select the chosen program of study in Programs A-Z
(p. 743) for more information.
• Unrestricted Electives:
  • 0 – 36 semester credit hours

Students may not use the same course to satisfy more than one category
within a degree. Program requirements (p. 743) indicate the specific
number of semester hours that must be earned in courses numbered 300
or higher. Students must achieve a cumulative grade point average of
2.00 or higher for all courses taken and for the courses which comprise
the area of the major field of study.

The program requirements, found under Programs A-Z (p. 743), list
all details for the degree program for the catalog under which
students are working. For students who declared a major prior to the
2018-19 academic year, details applicable to their program of study
can be found under Program Sheets for Previous Years (https://
www.coloradomesa.edu/academic-program-sheets). These students
should check with an advisor to make sure they are referencing the
correct program sheet/program requirements. All students should refer
to DegreeWorks to monitor their progress and ensure that requirements
are met. Throughout their time of study, students should work closely
with their faculty advisors to meet graduation requirements. Students
are ultimately and solely responsible for knowing the requirements for a
particular degree and for fulfilling those requirements.

Using Graduate Courses for Undergraduate and
Graduate Degree Credit
With the consent of the instructor and the Graduate Program Director/
Coordinator, students with more than 90 earned credit hours and
a cumulative GPA of 3.50 or greater will be allowed to take up to 6
total credit hours of graduate credit and apply those credits to their
undergraduate degree. Acceptance of credits is contingent on approval
of individual departments. Those same credits may subsequently be
applied toward the completion of a CMU graduate degree. If approved, the
appropriate forms will need to be submitted to the Registrar’s office prior
to completion of the course(s) to ensure proper assignment of credits to both the undergraduate and graduate transcripts. Note that any grades earned in these courses will affect the student’s undergraduate and graduate GPA.

**Academic Residency for Baccalaureate Degrees**

To receive a baccalaureate degree from Colorado Mesa University, students must complete a minimum of 30 of the last 60 semester hours of credit through CMU with at least 15 semester hours in major discipline courses numbered 300 or higher.

**Degree-Specific Requirements and Degree Category**

The requirements below are separate from and in addition to the Essential Learning requirements (i.e., the same course cannot be used for Essential Learning, degree category and/or other major requirements) and are included in the foundation courses or major courses. When applicable, the requirements are a part of a major’s requirements and must be completed with a grade of "C" or higher.

**Bachelor of Arts and Bachelor of Fine Arts**

Candidates for the BA degrees shall complete six sequential semester hours of one classical or modern foreign language with a grade of “C” or higher. At the discretion of the foreign language faculty and with the approval of the department head, a student may satisfy the requirement of their program by demonstration of equivalent competency. Students with two or more years of high school coursework in a foreign language may

1. see the department head for placement in a higher level class;
2. receive credit by successful completion of a CLEP test in that language; or
3. pursue another language.

Bachelor of Fine Arts degrees may or may not have a one or two semester foreign language requirement as described above. Select the chosen program of study in Programs A-Z (p. 743) for more information.

**Bachelor of Music**

The Bachelor of Music degrees are designed for those students who desire a professional career in music performance or the music business/industry.

This degree is a PTO program. See the description for PTO programs below.

**Bachelor of Music Education**

The Bachelor of Music Education degree provides students with the knowledge, skills, and musicianship to become a successful music educator. Studies in music theory, history, literature, ensemble performance, and applied study give the student a strong foundation on which to build a successful teaching career.

This degree is a PTO program. See the description for PTO programs below.

**Bachelor of Science and Bachelor of Science in Nursing**

Candidates for the BS and BSN degrees shall complete at least three semester hours of the following: CSCI 110 or higher or STAT 200 or higher, or a math course at a level beyond the Essential Learning requirement. Candidates must complete each of these courses with a grade of "C" or higher. At the discretion of the Computer Science, Math and Statistics (CSMS) faculty and with the approval of the CSMS department head, a student may satisfy the requirement of their program by a demonstration of equivalent competency.

**Bachelor of Social Work**

Candidates for the BSW degree must meet the same foreign language requirements as those listed for the BA (see above).

**Bachelor of Applied Science**

In order to obtain a Bachelor of Applied Science (BAS) degree from Colorado Mesa University, the following requirements apply. All BAS students are required to meet with the department BAS advisor in order to plan and schedule all classes.

- Formal admission to a BAS program requires completion of the appropriate AAS degree from an accredited institution. Any exceptions to this must be approved in advance by the department BAS advisor and the department head.
- In order to meet course prerequisites, additional courses may be required. Please meet with the BAS advisor to insure all prerequisites are completed.
- If a student decides to pursue a four-year degree that is not the BAS, technical credits transferred from another institution will be counted only as electives, with the number of hours determined through a course evaluation completed by the academic department head in collaboration with the CMU's Registrar’s Office.
- Students who transfer in credits from a recognized technical program must complete the requirements for an AAS degree before their technical training will be recognized for credit in the appropriate BAS program. Applicants from a non-regionally-accredited institution must meet all Essential Learning program and total credit hour requirements from a regionally-accredited institution prior to graduation from Colorado Mesa with a BAS program.
- The requirement of at least 33 hours of upper division coursework must be met by all students seeking a BAS degree, with the exception of a BAS is awarded in an interdisciplinary program.
- Students are required to participate in exit examinations, assessments, and any other programs deemed necessary to comply with the college accountability requirement.

A list of specific requirements for each BAS degree is available from the appropriate academic department head of the BAS program and the Transfer Resources section of the University's web site.

**Professional, Technical or Other (PTO) Programs**

A professional, technical or other baccalaureate degree is one wherein the curriculum must align with the requirements or recommendations of a nationally recognized accrediting, licensing, certifying, or professional organization in order to maintain the academic integrity of the program. Any program which is proposed to be in the PTO category must identify the accrediting, licensing, certifying, or professional organization with which it aligns. The number of hours required for a major in a PTO degree may exceed 60 hours when verified by the Undergraduate Curriculum Committee to be necessary to meet degree requirements which are set by the identified accrediting, licensing, certifying, or professional organization. For more information on specific PTO program requirements, students should refer to the requirements for the degree that they are seeking. See below for a list of approved PTO programs.
Students wishing to receive multiple concentrations within one degree must satisfy all the requirements for each concentration. Only one degree will be awarded. All concentrations must be declared on the petition to graduate.

Second Baccalaureate Degree
A student seeking a second baccalaureate degree at Colorado Mesa University must earn a minimum of 30 additional semester hours of credit, at least 18 of which must be in courses numbered 300 and higher. None of these 30 credits may have been used toward another baccalaureate degree, and all must be earned at Colorado Mesa University. In addition, the student must satisfy all specific program requirements of the new degree and concentration as well as any graduation requirements not previously met (e.g., the degree category). Students with a baccalaureate degree who are pursuing a second baccalaureate degree from Colorado Mesa University are exempt from the Wellness and Essential Learning Capstone requirements.

Requirements for a Minor
A minor is an approved program of study to broaden the scope of the educational experience and can be awarded with any baccalaureate degree. A minor, if chosen, must be outside the major field of study. Students are urged to consult a faculty advisor and to discuss program requirements (p. 743) for the minor sought. A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree. A student may earn up to five minors with any bachelor’s degree at Colorado Mesa University.

A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites. Since a minor is optional, courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable. At least 33 percent of the minor must be in courses numbered 300 or above and at least 25 percent of the classes must be taken at Colorado Mesa University. A cumulative grade point average of 2.00 or higher for the courses used for the minor must be achieved.

Essential Learning, Lower- and Upper-Division Requirements

Learn... Express... Do...: CMU’s Integrated Curriculum Model for a Baccalaureate Degree

The broad philosophy that underlies CMU’s curriculum is Integrated Learning that expects students to draw on knowledge and skills from courses across disciplines, critically evaluate information, and apply what they have learned in response to a problem, argument or issue. Colorado Mesa University expects that students will graduate with a well-developed capacity for analytical thought and a heightened awareness of their world. In the university learning environment, students are expected to embrace great ideas and expressions of creative energy that define the human condition. CMU baccalaureate students explore and integrate learning from a variety of fields of knowledge while also focusing their attention on a particular area of interest. This combination produces graduates with an adaptable skill set for use throughout their personal and professional lives.

Upon graduation, a CMU baccalaureate student will be able to:
• Construct a summative project, paper, or practice-based performance that draws on current research, scholarship and/or techniques, and specialized knowledge in the discipline (communication; specialized knowledge; applied learning);
• Analyze data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate conclusions (quantitative fluency);
• Make and defend assertions about a specialized topic in an extended well-organized document and an oral presentation that is appropriate to the discipline (critical thinking);
• Describe reasoned conclusions that articulate the implications and consequences for a particular decision by synthesizing information and methodologies (critical thinking);
• Reflect on and respond to ethical, social, civic, and/or environmental challenges at the local, national, and/or global levels (personal and social responsibility);
• Find relevant sources of information, evaluate information critically, and apply the information appropriately and effectively to specific purposes (information literacy).

**Essential Learning Lower Division Requirements**

**Essential Learning Overview**

At the lower division level, success in CMU's baccalaureate programs requires participation in the Essential Learning curriculum, which at many institutions is identified as General Education. This change in CMU's description of its lower division curriculum to Essential Learning represents a faculty and staff belief that these lower division courses form an important foundation for all majors in which students begin development of skills in written and oral communication, quantitative literacy and critical thinking. These courses also allow students to integrate what they learn in one course with that from others. The ability to integrate and apply learning and the development of the critical skills listed above are essential competencies for graduates to be successful in addressing the challenges of the twenty-first century.

The Essential Learning Program has two primary components: the Essential Learning Core (31 semester credit hours) and the Essential Learning Capstone (4 semester credit hours). The applicability of these components is described in the following section.

The Essential Learning Core provides students with a foundation in the arts and sciences, based on a range of courses in mathematics, natural sciences, fine arts, humanities and social sciences that complements and enhances a student's academic major. The exposure to multiple fields of study promotes intellectual respect for diverse people, ideas and cultures. This path of study develops skills critical to academic, personal and professional success while cultivating a passion for lifelong learning. Essential Learning courses, therefore, provide important tools that enable students to fully realize their potential at the baccalaureate level. When students have completed the Essential Learning Core, they possess enhanced abilities in critical thinking, quantitative analysis and communication that they will continue to develop in their academic major.

The Essential Learning program culminates in the completion of a Capstone course, the Maverick Milestone (3 credit hours) and its co-requisite, Essential Speech (1 credit hour). Building on the Essential Learning Core, the Maverick Milestone is a 200-level interdisciplinary, topics-oriented, writing-intensive course designed to help students develop the ability to approach problems and evaluate ideas using more than one set of intellectual tools. Students must enroll simultaneously in the Milestone's co-requisite, Essential Speech, which provides students with fundamental tools for verbally presenting ideas and information learned in the Milestone. Baccalaureate-seeking students are required to meet the Maverick Milestone/ESL Speech requirements in the time frame when they have earned between 45 and 75 credit hours. This pair of courses is an important transition between Essential Learning courses and upper-division work in the major.

Thus, upon completion of CMU's Essential Learning program, a student will be able to:

• Produce effective arguments and summaries in written English.
• Present information effectively in spoken English.
• Demonstrate quantitative literacy.
• Critically examine and evaluate an argument.
• Demonstrate investigative and analytical thinking skills to solve problems.
• Select and use appropriate information or techniques in an academic project.
• Construct an academic project using techniques and methodologies from multiple disciplines.

As students transition into upper division courses, they will focus more on specialized knowledge associated with their major. The on-going emphasis on developing written and oral communication, quantitative literacy and critical thinking skills will strengthen the students’ problem-solving skills and integrate ways of thinking from various areas of study. By meeting the student learning outcomes for the lower-division coursework, students will enjoy an enriched learning experience in their major while also preparing for their chosen career paths.

**Applicability of the Essential Learning Program Requirements**

The Essential Learning Program's Milestone requirements apply to CMU baccalaureate-seeking students who enroll for the first time in Summer/Fall 2015 or later. Speechmaking/Public Speaking courses (CMU's SPCH 102), whether taken from CMU or transferred from another institution, will be accepted in lieu of the ESSL 200 requirement. Students who have earned an Associate of Arts or Associate of Science degree from another institution, as well as those who have successfully completed the entire Colorado Core Transfer Consortium General Education Curriculum at another institution prior to transfer to WCCC/CMU, are exempt from the Maverick Milestone, Essential Speech and Wellness course requirements. All other policies noted in the section “Applicable Catalog and Degree Requirements” also apply.

Students who enrolled or declared a major at the baccalaureate level prior to Summer/Fall 2015 may choose between the former General Education requirements and the new Essential Learning program, but must be continuously enrolled as defined in the section “Applicable Catalog and Degree Requirements.” All students should review the program sheet for their major, provided in Programs A-Z (p. 743), and consult with an academic advisor as they consider their course selection.

Essential Learning program requirements do not apply to students who have previously earned a baccalaureate degree. Students pursuing an Associate of Arts (AA) or Associate of Science (AS) degree from WCCC must complete the 31 credit hour Essential Learning Core, but do not have to complete the four credit hour Essential Learning Capstone until they transfer into a baccalaureate degree program. Once a student...
makes the transition to a baccalaureate program, the Essential Learning Capstone requirement takes effect and should be completed in the earliest possible semester after which 45 credit hours has been earned.

Students enrolled prior to Summer/Fall 2015 have the option of completing CMU's previous Applied Studies requirement (3 semester credit hours) instead of CMU's current Essential Learning Capstone requirement (4 semester credit hours). Applied Studies courses are not considered as part of the Essential Learning Core for baccalaureate degree programs. For a list of approved Applied Studies courses, see the Applied Studies entry under the “Other Lower Division Requirements” section.

Students enrolled in an Associate of Applied Science (AAS) degree must complete 15 credit hours of Essential Learning Core courses for their major. Some courses may be specified on the program sheet, which can be found under Programs A-Z (p. 743).

**Essential Learning Core Course Requirements**

Each student must complete the 31 minimum semester hours Essential Learning Core requirement as specified by the Colorado Mesa University faculty. For specific course requirements and choices, refer to the section titled “Core Courses Approved for the Essential Learning Program Requirements.”

**English: 6 semester credit hours**

Colorado Mesa University students are required to complete English composition for the Essential Learning requirement prior to exceeding 60 semester credit hours, preferably during their first year of enrollment. Those who are advised to enroll in developmental courses should do so before taking the required 100-level courses, preferably in their first semester at CMU.

English courses must be taken in sequence and students are encouraged to take them in consecutive semesters. Students must earn a "C" or higher in ENGL 111 before taking ENGL 112 or ENGL 219, and students must earn a "C" or higher in ENGL 112 to enroll in ENGL 219. Some programs may require a minimum grade of a "B" in all English Essential Learning courses.

Students who are completing 60 hours of course work will not be permitted to enroll in any additional courses until they have passed the required English courses. Exceptions to the policy require the written permission of the appropriate academic department head for English or designee.

**Mathematics: 3 semester credit hours**

Colorado Mesa University students are required to complete mathematics for the Essential Learning requirement prior to exceeding 60 semester credit hours, preferably during their first year of enrollment. Those who are advised to enroll in developmental courses should do so before taking the required 100-level courses. All prerequisite mathematics courses, as well as the Essential Learning mathematics course, must be completed with a "C" or higher.

Students who are completing 60 hours of course work will not be permitted to enroll in any additional courses until they have passed the required courses. Exceptions to the policy require the written permission of the appropriate academic department head for Mathematics or designee.

For specific mathematics requirements, students should complete the courses specified on the program sheet, which can be found under Programs A-Z (p. 743). For all majors, the mathematics requirement and any required mathematics prerequisite can only be met with a grade of “C” or higher.

**History: 3 semester credit hours**

Choose from selected history courses.

Three additional hours of history may be chosen to fulfill the Humanities requirement below.

**Humanities: 3 semester credit hours**

Choose from selected English, history, mass communication, philosophy and speech courses.

**Social and Behavioral Science: 6 semester credit hours**

Choose from selected archaeology, anthropology, computer science, economics, geography, political science, psychology, sociology and speech courses.

**Fine Arts: 3 semester credit hours**

Choose from selected art, dance, fine arts, music and theatre courses.

**Natural Sciences: 7 semester credit hours**

Choose from selected biology, chemistry, environmental sciences, geology and physics courses.

At least one of the two Natural Sciences courses must have an associated lab or field component, and both the lecture and lab must be taken in all courses listed which have both, if Essential Learning credit is to be received. Courses that fit this lecture and laboratory requirement are marked with an asterisk in the Natural Sciences list for Essential Learning.

**Core Courses Approved for the Essential Learning Program Requirements**

The following courses are approved to meet the Essential Learning Core requirements for baccalaureate and associate degrees from Colorado Mesa University. Students may select their Essential Learning courses from the list below according to their own preference unless specific Essential Learning Core courses are prescribed for their major or excluded after consultation with their advisor. Courses used to meet the requirements for the major cannot be used to fulfill the Essential Learning requirement. Essential Learning courses, however, can be double-counted between the major and minor or between majors. Requirements for a specific major can be found under Programs A-Z (p. 743).

Essential Learning Core course requirements may also be met with an appropriate AP, CLEP or DANTES test if the test has been approved by the appropriate academic department at Colorado Mesa University. Credit may also be awarded via the Credit for Prior Learning option. See Non-Traditional Credit section in this catalog for more information.

Most CMU Essential Learning Core courses below are approved by the Colorado Department of Higher Education for statewide guaranteed transfer, as part of the gtPathways program (see section on “Colorado Department of Higher Education Statewide Guaranteed Transfer Courses”).
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<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
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<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
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<td>Introduction to Professional Writing-GTCO3</td>
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<td>MATH 113</td>
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<td>MATH 119</td>
<td>Precalculus Mathematics-GTMA1</td>
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<td>or MATH 149</td>
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<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
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<td>MATH 205</td>
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<td>HIST 101</td>
<td>Western Civilizations-GTHI1</td>
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<td>Mass Media: Impact and History-GTAH2</td>
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<td>Critical Thinking-GTAH3</td>
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<td>PHIL 120</td>
<td>Ethics-GTAH3</td>
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<td>Philosophy of Religion-GTAH3</td>
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<td>Principles of Archaeology-GTSS3</td>
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<td>GEOF 102</td>
<td>Human Geography-GTSS2</td>
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<td>GEOF 103</td>
<td>World Regional Geography-GTSS2</td>
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<td>POLS 101</td>
<td>American Government-GTSS1</td>
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<td>POLS 151</td>
<td>Introduction to Political Ideas</td>
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<td>POLS 261</td>
<td>Comparative Politics-GTSS1</td>
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<td>POLS 270</td>
<td>World Politics</td>
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<td>PSYC 150</td>
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<td>PSYC 233</td>
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<td>SOCI 101</td>
<td>Introduction to Lesbian, Gay, Bisexual, and Transgender Studies</td>
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<td>SOCI 120</td>
<td>Technology and Society-GTSS3</td>
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<td>Dance Appreciation-GTAH1</td>
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</tr>
<tr>
<td>FINE 101</td>
<td>The Living Arts-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 220</td>
<td>Music Appreciation-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 266</td>
<td>History of Popular Music-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 267</td>
<td>Jazz History and Literature</td>
<td>3</td>
</tr>
<tr>
<td>THEA 141</td>
<td>Theatre Appreciation-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>THEA 145</td>
<td>Introduction to Dramatic Literature-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 101</td>
<td>General Human Biology-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 101L</td>
<td>General Human Biology Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 105</td>
<td>Attributes of Living Systems-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 105L</td>
<td>Attributes of Living Systems Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 108</td>
<td>Diversity of Organisms-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 108L</td>
<td>Diversity of Organisms Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 250</td>
<td>Introduction to Microbiology-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 250L</td>
<td>Introduction to Microbiology Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 100</td>
<td>Chemistry and Society-GTSC2</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 121</td>
<td>Principles of Chemistry-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 121L</td>
<td>Principles of Chemistry Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 122</td>
<td>Principles of Organic Chemistry-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 122L</td>
<td>Principles of Organic Chemistry Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 131</td>
<td>General Chemistry I-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 131L</td>
<td>General Chemistry Laboratory I-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 132</td>
<td>General Chemistry II-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 132L</td>
<td>General Chemistry Laboratory II-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>ENVS 101</td>
<td>Introduction to Environmental Science-GTSC2</td>
<td>3</td>
</tr>
</tbody>
</table>
Weather and Climate-GTSC2

Elementary Astronomy-GTSC2

Beginning Ballet

Natural Hazards and Environmental Geology-

Geology of Colorado-GTSC2

Marching Band

Only these courses fulfill the requirement of Natural Science with an

Students seeking the BA, BFA, BM, BME or BSW degree must

Not approved for gtPathways.

Can not be used to substitute for ESSL 200 of the Essential Learning

Only these courses fulfill the requirement of Natural Science with an

Other Lower Division Requirements for Baccalaureate Degrees

In addition to the Essential Learning Core requirements described in the previous section, students pursuing a CMU baccalaureate degree must meet other lower division requirements as described below.

Essential Learning Capstone

Students are required to complete between 45 and 75 credit hours of coursework before enrolling in the four credits associated with the co-

required Milestone and Speech courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

1 See the Maverick Milestone policies included in the General Undergraduate Academic Policies section.

Wellness Requirement

Each student must take KINE 100 Health and Wellness (1 s.h.) plus either one or two activity courses, as specified on the program sheet for each major. Program sheets can be found under Programs A-Z (p. 743). The only exception to taking KINE 100 Health and Wellness (1 s.h.) are those students who request and pass a proficiency test at least at the 80 percent level. Contact the Kinesiology Department Head or the CMU Testing Center for additional information.

Up to six KINA courses (excluding varsity athletics) may be taken as electives toward graduation with a baccalaureate degree.

Each course is scheduled for an eight-week module and designed to emphasize and assess basic skills, related knowledge, and the importance of physical activity in promoting and maintaining personal health. Students learn and apply health fitness concepts while gaining skills relating to the specific activity. Throughout the eight weeks, students complete various assignments designed to encourage physical activity, healthy lifestyle changes, and application health and fitness concepts. Prerequisites for all "Intermediate" or part II classes: the corresponding beginning course or instructor consent.

Courses approved for the Wellness requirement for baccalaureate degrees are as follows:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>KINE 1XX</td>
<td>Activity Courses</td>
<td></td>
</tr>
<tr>
<td>DANC 154</td>
<td>Dance Team</td>
<td>1</td>
</tr>
<tr>
<td>DANC 160</td>
<td>Beginning Ballet</td>
<td>1</td>
</tr>
<tr>
<td>DANC 169</td>
<td>Beginning Modern Dance</td>
<td>1</td>
</tr>
<tr>
<td>DANC 174</td>
<td>Beginning Jazz Dance</td>
<td>1</td>
</tr>
<tr>
<td>DANC 177</td>
<td>Beginning Tap Dance</td>
<td>1</td>
</tr>
<tr>
<td>DANC 180</td>
<td>Beginning Hip Hop Dance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 147</td>
<td>Marching Band</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 8

1 The combination of ENGL 111 English Composition-GTCO1 (3 s.h.) and ENGL 219 Introduction to Professional Writing-GTCO3 (3 s.h.) does not meet the Essential Learning English requirement.

2 Students seeking the BA, BFA, BM, BME or BSW degree must complete MATH 110 College Mathematics-GTMA1 (3 s.h.) or a higher level mathematics course with a grade of "C" or higher to fulfill their mathematics competency under Essential Learning. Students seeking the BS, BSN or BBA degree must complete MATH 113 College Algebra-GTMA1 (4 s.h.) or higher level mathematics course with a grade of "C" or higher to fulfill their mathematics competency under Essential Learning. Students seeking the BAS degree must refer to their specific program to determine the mathematics competency requirement under essential learning.

3 Not approved for gtPathways.

4 Cannot be used to substitute for ESSL 200 of the Essential Learning Capstone Requirement.

5 Only these courses fulfill the requirement of Natural Science with an associated lab or field component. Both the lecture and laboratory must be taken if essential learning credit or graduation credit is to be received.
Note on Varsity Athletics: Only one varsity sport activity course numbered KINA 180-189 may be used to meet the Wellness activity requirement. Varsity athletics may not be used as elective credit.

**Applied Studies**

Students enrolled prior to Summer/Fall 2015 have the option of completing CMU’s previous Applied Studies requirement (3 semester credit hours from the following list of approved courses) instead of CMU’s current Essential Learning Capstone requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 249</td>
<td>Personal Finance: The Business of Life</td>
<td>3</td>
</tr>
<tr>
<td>CISB 101</td>
<td>Business Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 100</td>
<td>Computers In Our Society</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 106</td>
<td>Web Page Design I</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 219</td>
<td>Introduction to Professional Writing-GTCO3</td>
<td>3</td>
</tr>
<tr>
<td>FLAF 111</td>
<td>First-Year French I</td>
<td>6</td>
</tr>
<tr>
<td>FLAF 112</td>
<td>and First-Year French II</td>
<td></td>
</tr>
<tr>
<td>FLAG 111</td>
<td>First-Year German I</td>
<td>6</td>
</tr>
<tr>
<td>FLAG 112</td>
<td>and First-Year German II</td>
<td></td>
</tr>
<tr>
<td>FLAS 111</td>
<td>First-Year Spanish I</td>
<td>6</td>
</tr>
<tr>
<td>FLAS 112</td>
<td>and First-Year Spanish II</td>
<td></td>
</tr>
<tr>
<td>FLGK 111</td>
<td>Introductory Greek I</td>
<td>6</td>
</tr>
<tr>
<td>FLGK 112</td>
<td>and Introductory Greek II</td>
<td></td>
</tr>
<tr>
<td>FLLT 111</td>
<td>Introductory Latin I</td>
<td>6</td>
</tr>
<tr>
<td>FLLT 112</td>
<td>and Introductory Latin 2</td>
<td></td>
</tr>
<tr>
<td>FLSL 111</td>
<td>American Sign Language I</td>
<td>6</td>
</tr>
<tr>
<td>FLSL 112</td>
<td>and American Sign Language II</td>
<td></td>
</tr>
<tr>
<td>FLAJ 111</td>
<td>Beginning Japanese I</td>
<td>6</td>
</tr>
<tr>
<td>FLAJ 112</td>
<td>and Beginning Japanese II</td>
<td></td>
</tr>
<tr>
<td>GEOG 131</td>
<td>Introduction to Cartography</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 101</td>
<td>Introduction to Health Care Professions</td>
<td>3</td>
</tr>
<tr>
<td>KINE 265</td>
<td>First Aid and CPR/AED for the Health Care Provider</td>
<td>3</td>
</tr>
<tr>
<td>PHIL 275</td>
<td>Introduction To Logic</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 112</td>
<td>Voice and Diction</td>
<td>3</td>
</tr>
<tr>
<td>TSTG 120</td>
<td>Industrial Safety Practices</td>
<td>2</td>
</tr>
</tbody>
</table>

1. If not used for the Essential Learning Core.

**Upper Division Requirements**

Students seeking a baccalaureate degree must earn a minimum number of upper-division semester credit hours (numbered between 300 and 499), depending on the degree and major.

A minimum of 40 semester credit hours is required for all Bachelor of Arts, Bachelor of Fine Arts, Bachelor of Music Education, Bachelor of Science, Bachelor of Business Administration and Bachelor of Social Work degrees. Students seeking a Bachelor of Science in Nursing or Bachelor of Applied Science should refer to their program sheet, located under Programs A-Z (p. 743), for the minimum upper-division credit hour requirement.

**Requirements for Associate Degrees**

- Associate of Arts (AA)
- Associate of Science (AS)
- Associate of Applied Science (AAS)

**Credit Hour Requirements**

For most associate degrees, 60 semester credit hours in approved course work must be earned. A cumulative grade point average of 2.00 or higher must be achieved for all courses including those which comprise the area of emphasis. Some programs have additional GPA requirements.

**Academic Residency for Associate Degrees**

To receive an associate degree from Colorado Mesa University, students must complete a minimum of 15 of the final 30 semester hours of credit through Colorado Mesa University.

**Associate of Arts (AA) and Associate of Science (AS) Degree Requirements**

AA and AS degree programs are designed to prepare students for transfer into upper division collegiate work (junior level) in colleges and universities granting the Bachelor of Arts (BA) or Bachelor of Science (BS) degree. The AA degree is structured for transfer into a baccalaureate degree program, with junior standing, in the arts, humanities, social or behavioral sciences, or one of the professional fields with such disciplines as its base. The AS degree is designed for transfer into a baccalaureate degree program, with junior standing, in one of the mathematical, biological, or physical sciences, or in one of the professional fields with such disciplines as its base.

CMU’s Essential Learning Core coursework for all AA and AS degree programs aligns with the Colorado Statewide General Education Core and will thus meet the lower-division General Education requirements of most baccalaureate degree programs at public institutions in Colorado. A grade of “C” or higher is required in each Core course in order to be accepted for transfer under the Core Transfer Agreements.

Students should consult with their faculty advisors to assure that the emphasis and electives chosen will satisfy requirements of the particular baccalaureate programs to which they plan to transfer.

In general, coursework for the AA or AS degree includes:

1. Completion of the university’s 31 credit hour Essential Learning Core which fulfills the state’s General Education curriculum. The same English and mathematics requirements specified for baccalaureate-seeking students also apply to those pursuing an AA or AS degree.

Students pursuing an AA or AS degree do not have to complete the 4 credit hour Essential Learning Capstone unless they transfer into a baccalaureate degree program. Once a student makes the transition to a baccalaureate program, the Essential Learning Capstone requirements take effect and should be completed in the earliest possible semester after which 45 credit hours have been earned.

Students enrolled prior to summer/fall 2015 have the option of completing CMU’s previous Applied Studies requirement (3 semester credit hours) instead of the current Essential Learning Capstone requirement (4 semester hours). For a list of approved Applied
Studies courses, see the entry under the “Other Lower Division Requirements” section for baccalaureate degrees.

Specific information about the Essential Learning content areas, required hours and courses is found under the baccalaureate section “Essential Learning Core Course Requirements” and “Core Courses Approved for the Essential Learning Program Requirements.”

2. Other lower division requirements. For the Wellness requirement, an associate degree seeking student must earn two semester credit hours in Kinesiology. In addition to KINE 100, a student also must complete one activity course which include: KINA 1XX, DANC 160, DANC 169, DANC 174, DANC 177, DANC 180, and MUSP 147. Up to three KINA courses (excluding varsity athletics) may be taken as electives toward graduation with an associate degree.

Students seeking an associate degree must complete the Essential Learning Core, but do not have to enroll in the Capstone coursework until they formally declare a major in a baccalaureate degree. Students enrolled prior to Summer/Fall 2015 have the option of completing CMU’s previous Applied Studies requirement (3 semester credit hours) instead of CMU’s Essential Learning Capstone requirement. Applied Studies courses are not considered part of the Essential Learning Core for AA or AS degree programs. See the list of courses approved for Applied Studies in the baccalaureate section of this chapter.

3. Discipline classes (emphasis). Consult with a faculty advisor.

4. Electives. May be required to meet the minimum 60 hours. See program sheet.

**Associate of Applied Science (AAS) Degree Requirements**

AAS degree programs are intended to prepare individuals to enter skilled and/or para-professional occupations or to upgrade/stabilize their employment. With the exception of the Bachelor of Applied Science degree, these programs generally are not intended for transfer to baccalaureate degree programs. Selected courses, however, may be accepted toward a baccalaureate degree at some institutions. The AAS degrees available at Colorado Mesa University, along with the courses required to complete each degree, are described in the Programs of Study section in this catalog. Students should consult a faculty advisor on specific degree requirements.

Required coursework for an AAS degree includes:

1. Essential Learning courses (15 semester credit hours)
   While some courses may be specified for a major, the following minimum requirements apply:
   a. 3 semester hours of Mathematics:
      • MATH 107 or higher
      Note: MATH 107 and MATH 108 do not meet the mathematics Essential Learning (General Education) requirement for students who subsequently elect to pursue an AA, AS, or a baccalaureate degree.
   b. 6 semester hours of Communication:
      • ENGL 111 and
      • ENGL 112 or SPCH 101 or SPCH 102
   c. 6 semester hours of other Essential Learning Core courses:
      • 6 semester hours Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities.

2. Wellness Requirement: 2 semester hours

For the Wellness requirement, an associate degree seeking student must earn two semester credit hours in Kinesiology. In addition to KINE 100, a student also must complete one activity course which include: KINA 1XX, DANC 160, DANC 169, DANC 174, DANC 177, DANC 180 , and MUSP 147. Up to three KINA courses (excluding varsity athletics) may be taken as electives toward graduation with an associate degree.

3. Additional lower division requirements as relevant to some degrees, e.g. prerequisites.

**Double Emphasis within an Associate Degree**

Students who elect to pursue a double emphasis within one degree must satisfy all the requirements for each emphasis. Only one associate degree will be awarded, and all emphases must be declared on the petition to graduate.

**Second Associate Degree**

A minimum of 15 semester hours of credit beyond that required for the first associate degree must be earned by a student seeking a second associate degree at Colorado Mesa University. A minimum of one semester of residency at Colorado Mesa University is also necessary. In addition, the student must satisfy all specific requirements for the new degree. Only one AA and only one AS degree may be granted to any student.

**Requirements for Undergraduate Certificates**

**Professional Certificate Requirements**

Colorado Mesa University offers upper division, professional certificates for students interested in broadening their knowledge and/or enhancing job-related skills in a professional field of study. The requirements for professional certificates vary and include coursework in a discipline in addition to a mix of lower division Essential Learning Courses. Candidates for a Professional Certificate at Colorado Mesa University must satisfy all requirements specified on the certificate’s program sheet with a cumulative grade point average of 2.00 or higher for all courses. A grade lower than a “C” in the program of study will not be counted toward meeting the certificate’s requirements. To meet academic residency at least fifty percent of the credit hours for the certificate must be earned through Colorado Mesa University. Students should contact the appropriate academic department head for specific certificate requirements.

**Technical Certificate Requirements**

Candidates for a Technical Certificate at Colorado Mesa University must satisfy all requirements specified on the certificate's program sheet with a cumulative grade point average of 2.00 or higher for all courses. A grade lower than a “C” in the program of study will not be counted toward meeting the certificate’s requirements. To meet academic residency, at least fifty percent of the credit hours for the certificate must be earned through Colorado Mesa University.
Colorado Department of Higher Education Statewide Guaranteed Transfer Courses

Colorado Mesa University offers a wide variety of Essential Learning courses that are approved for Colorado’s Guaranteed Transfer Pathways (gtPathways) General Education Curriculum, which ensures their acceptance for transfer to other Colorado public institutions of higher education. Additionally, CMU accepts the transfer of gtPathways approved courses from other Colorado public institutions of higher education. Guaranteed transfer courses are universally transferable across these institutions and are applicable to Essential Learning/General Education requirements within all associate and baccalaureate degree programs.

GT Codes
To determine if a CMU course is eligible for gtPathways transfer, check for a GT code in the course description. Courses approved through Colorado’s gtPathways General Education Curriculum are grouped into five content areas, four of which have sub groupings:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Arts and Humanities:</strong></td>
<td></td>
</tr>
<tr>
<td>GT-AH1</td>
<td>Arts and Expression</td>
<td></td>
</tr>
<tr>
<td>GT-AH2</td>
<td>Literature and Humanities</td>
<td></td>
</tr>
<tr>
<td>GT-AH3</td>
<td>Ways of Thinking</td>
<td></td>
</tr>
<tr>
<td>GT-AH4</td>
<td>Foreign Languages 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Communication:</strong></td>
<td></td>
</tr>
<tr>
<td>GT-CO1</td>
<td>Introductory Writing</td>
<td></td>
</tr>
<tr>
<td>GT-CO2</td>
<td>Intermediate Writing</td>
<td></td>
</tr>
<tr>
<td>GT-CO3</td>
<td>Advanced Writing</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Mathematics:</strong></td>
<td></td>
</tr>
<tr>
<td>GT-MA1</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Natural and Physical Sciences:</strong></td>
<td></td>
</tr>
<tr>
<td>GT-SC1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>GT-SC2</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Social and Behavioral Sciences:</strong></td>
<td></td>
</tr>
<tr>
<td>GT-HI1</td>
<td>History</td>
<td></td>
</tr>
<tr>
<td>GT-SS1</td>
<td>Economic or Political Systems</td>
<td></td>
</tr>
<tr>
<td>GT-SS2</td>
<td>Geography</td>
<td></td>
</tr>
<tr>
<td>GT-SS3</td>
<td>Human Behavior, Culture, or Social Frameworks</td>
<td></td>
</tr>
</tbody>
</table>

1 Intermediate, i.e., 200-level.
2 Note: no subgroups.
3 With required laboratory.
4 Without required laboratory.

All courses (except as noted) listed under the Core Courses Approved for the Essential Learning Program Requirements (p. 97) section, in addition to STAT 200, have been approved by the Colorado Department of Higher Education (CDHE) as guaranteed transfer courses. They also are designated in the Course Descriptions (p. 751) section of this catalog. More information is available at the CDHE transfer website (https://highered.colorado.gov/Academics/Transfers/Students.html) as well as from the CMU Registrar’s Office statewide transfer programs website (https://www.coloradomesa.edu/transfer/colorado-statewide-transfer.html) or a faculty advisor.
GRADUATE INFORMATION AND PROGRAMS

- General Graduate Admissions Policies & Procedures (p. 106)
- Graduate Degree Requirements (p. 109)
- Graduation Checklist (p. 111)
- Research Activities (p. 112)
- Graduate Certificate in Applied Mathematics (p. 113)
- Graduate Certificate in Health Information Technology Systems (p. 114)
- Graduate Certificate in Rhetoric and Literary Studies (p. 115)
- Graduate Certificate in Social Science (p. 116)
- Graduate Certificates in Education (p. 117)
- Initial Teacher Licensure (p. 118)
- Master of Arts in Education (p. 119)
- Master of Business Administration (p. 120)
- Master of Physician Assistant Studies (p. 121)
- Master of Science in Nursing (p. 122)
- Master of Science in Sport Management (p. 123)
- Doctor of Nursing Practice (p. 124)

The above links are to general information on graduate programming, policies, and procedures at Colorado Mesa University. For details on specific graduate programs, including degree requirements and suggested course sequencing, please refer to program information found through the Areas of Study (p. 130) or Programs A-Z (p. 743) sections.
GENERAL GRADUATE ADMISSIONS POLICIES & PROCEDURES

Admission Criteria
Faculty in each degree program establish admission standards for the individual graduate program, which may exceed the minimum standards set by Colorado Mesa University’s Graduate Studies Advisory Committee. Applicants should consult the Academic Department Head or Graduate Program Director/Coordinator in the program(s) of interest for any additional admission requirements.

Individuals seeking to enter CMU as graduate students who have not yet been accepted into a graduate program or do not desire a credential may apply for “Non-Degree Seeking” admission. Each applicant must possess a baccalaureate degree from an accredited college or university, or equivalent certification. Faculty can make recommendations for admission of non-degree seeking students who do not meet the criteria to the Assistant Vice President for Academic Affairs.

An individual without a baccalaureate degree may be admitted to a master’s degree program only if he or she is admitted to a combined program at CMU, such as the MBA 3+2 program.

Admission Procedures
To begin a graduate program at CMU, a student must possess a baccalaureate degree from an accredited institution. The following items must be submitted to the Admissions Office online:

1. A completed Application for Admission to Graduate Programs and a $50 application fee. The fee is non-refundable and is not applicable toward tuition. The application form may be found on the Graduate Studies webpage.
2. Official transcripts of all college and university work must be sent directly to the Admissions Office by each institution attended. Unofficial copies of transcripts can accompany the original application, but official copies will be required before full admission is granted. Transcripts received directly from students cannot be accepted except for advising purposes. The transcripts of students who previously attended CMU must still be requested from the Registrar’s Office.
3. Test scores, if required by the program, from either the Educational Testing Services for the Graduate Record Examination (GRE) or the Graduate Management Admission Test (GMAT), or from the Psychological Corporation for the Miller Analogies Test (MAT) must be provided. Students must request the scores be sent to the Admissions Office. See the specific degree program for required examinations.
4. Acceptance for admission is determined by the specific program’s Graduate Admission Committee, which acts as the selection committee for new or readmitted applicants. Final approval for admission is subject to Department Head approval with notification to the Director of Graduate Studies.
5. Academic departments offering graduate programs may admit a student based upon supplemental/alternate criteria that have been established by the major department. If someone is recommended for admission who does not meet CMU’s graduate program standards, a rationale must be provided stating the factors which were considered in recommending the student: GPA in the discipline; letters of recommendation; samples of the student’s work; GRE, MAT or GMAT scores; or other compelling factors. The Director of Graduate Studies reviews all recommendations for admission below the standard.

Applicants should check with individual programs regarding specific application and admission deadlines. After the program faculty make a final decision on admission, the student will be notified of the outcome.

Admission Expiration
Students who do not enroll in the semester in which they are admitted and who do not notify the program should reapply for admission and adhere to program admission deadlines.

Students who wish to defer beginning of the program may request deferred admission for a period of up to one calendar year with permission of the Program Director/Coordinator, Academic Department Head, and Director of Graduate Studies.

Conditional Admission
Conditional admission refers to applicants admitted pending the receipt of application requirements specified by either the Admissions Office and/or the academic department. Applicants for admission may be accepted into a graduate program or with the provision that they complete deficiencies as noted in and by the dates specified in their acceptance letter.

International Student Admission
To be considered for admission, a prospective international graduate student who has or will be seeking an F-1 student visa, must apply for admission with the program in addition to the Office of International Student Admissions and Programs. International applicants must satisfy all requirements for admission as determined by the graduate program. In addition, international applicants are required to:

1. Provide all university transcripts from previous institutions. For courses taken and degree(s) earned at a college/university outside of the United States, a professional transcript evaluation must be received. Please see coloradomesa.edu/international for more information on approved foreign transcript evaluation options.
2. Provide proof of English proficiency. Submit exam scores from within the two years for the Test of English as a Foreign Language (TOEFL) or the International English Language Testing System (IELTS). Please see the international graduate web page (https://www.coloradomesa.edu/admissions/requirements/international/graduate.html) for more information and test scores minimums.
3. Complete and have notarized the CMU Statement of Financial Support and submit this form along with official bank statement(s), demonstrating proof of sufficient financial resources. Costs and forms may be obtained from the international graduate web page (https://www.coloradomesa.edu/admissions/requirements/international/graduate.html).
4. For registration purposes, all international students are required to maintain health insurance. Students who do not already have coverage will be enrolled in CMU’s international student group insurance plan.
5. For registration purposes, all international students are required to comply with the Colorado law regarding the measles, mumps and rubella immunizations. A Colorado Mesa University official immunization form (https://www.coloradomesa.edu/registrar/)...
Enrollment Prior to Admission

Students who have applied for admission to a graduate program at CMU are not permitted to enroll for more than nine credit hours in that graduate program as a non-degree seeking student. A hold shall be placed on the student’s registration, and the student cannot continue to enroll until an admission decision has been reached. A student’s application must be complete, and the program faculty must recommend either a regular admission or must deny admission by the earning of nine credit hours.

Financial Aid

Students should consult the Financial Aid Office for eligibility requirements of undergraduate & graduate certificates.

Admission Appeals

An applicant who has been denied admission to a graduate program or who has received Conditional Admission may request reconsideration by writing to the Graduate Program Department Head within 10 days of the date of denial or notification of conditional admission status. Requests should include the reasons for requesting reconsideration, along with supporting materials and information that was not submitted with the original application. Appeals should follow the appeal process listed in the Graduate Criteria and Procedure Manual (https://www.coloradomesa.edu/graduate/documents/GraduatePoliciesProcedures.pdf).

Academic Advisor

Each student shall be assigned an Academic Advisor upon acceptance into a graduate program by the appropriate department. The student’s Academic Advisor, in consultation with the student’s Graduate Committee or Graduate Program Director/Coordinator, should approve all courses applied to graduation requirements. The Graduate Advisor also is responsible for assisting students with questions regarding their academic programs such as expectations for comprehensive examinations, thesis, and/or practicum as well as professional advising and guidance for academic and professional endeavors. Any advisor-approved deviations from published program requirements or degree plans must be approved by the Graduate Program Director/Coordinator, the Academic Department Head and the Director of Graduate Studies.

Note: The importance of the Graduate Advisor cannot be overstated. Advising includes all aspects of students’ present and future academic and professional planning. It is often the Graduate Advisor who is able to help students conceptualize their academic program within the context of their own professional goals and aspirations.

Degree Plan

After acceptance into a graduate program, each student shall meet with his or her Graduate Advisor and determine a degree plan that, when completed, leads to the attainment of the graduate degree. The degree plan shall be constructed before the student completes one semester or nine credit hours of coursework. This degree plan should follow the guidelines of CMU and the academic department. The respective degree plan shall list all courses, including those needed for any remediation and/or weaknesses deemed by the academic advisor, and practicum, thesis, and research requirements necessary to complete the specific degree. The degree plan should have the approval of the student, the academic advisor, the Graduate Advisor, the Graduate Program Director/Coordinator, and the Academic Department Head. Upon completion of the degree plan and all requirements, and upon the recommendation of the Faculty, the student shall be awarded the respective graduate degree.

Note: An addendum can be submitted to the degree plan provided the approval of the student, the Graduate Advisor, the Graduate Program Director/Coordinator, the Academic Department Head, and the Director of Graduate Studies are secured approving the changes.

Transfer Credit

Students can transfer up to 30% from another accredited institution into their degree plan for a graduate degree provided they meet the general transfer policies of CMU and are approved by the Graduate Advisor, the Graduate Program Director/Coordinator, and the Academic Department Head.

1. Transfer work is not applied in the calculation of the graduate GPA.
2. Grades earned on transferred courses should be equivalent to B- or better. Only courses graded by “letter” grades are transferable.
3. Courses graded S/U or P/F are not transferable (this includes thesis, dissertation, practicum, and capstone credits that may be awarded letter grades at other institutions).
4. Transfer courses should be numbered as graduate level (5XX, 6XX, 7XX) according to the institution’s graduate transcript. Transfer courses should be from regionally accredited institutions of higher education that offer equivalent level degrees or graduate level coursework.
5. Graduate internship credit transferred from another institution may be considered for transfer credit. Requirements may vary by academic program.
6. Thesis credit or credit for a master’s project is not eligible for transfer credit unless the thesis or research project is a collaborative or joint effort between CMU and another accredited institution offering graduate programs and degrees.
7. After beginning their graduate program of study at CMU, students wishing to take one or more courses at another institution for graduate credit should first consult their Graduate Program Director/Coordinator. Permission may be granted following the procedure for transferring the credits earned at other institution as described above.
8. Non-credit courses, including lifetime learning seminars and continuing education courses, are not eligible for transfer credit.
9. Students wishing to take one or more courses at another institution for graduate credit after beginning their graduate program of study at CMU must first consult their program graduate advisor. Permission may be granted following the procedure for transferring the credits earned at other institution as described above.

Students who wish to transfer credit must provide the Registrar’s Office with complete documentation showing the course(s) to be transferred. The student then must present the complete transcript to the program advisor for approval or disapproval. Any transfer credits must be included on the degree plan. Courses requested for transfer must meet all criteria for credit transfer (see general transfer policies) to be approved by the department.
Students seeking transfer credit may also be asked to provide the published course description, and learning objectives, course requirements, including assignments and grading criteria, information on the course syllabus, textbook, etc. to the program advisor for consideration.

**Academic Integrity**

Academic misconduct includes, but is not limited to, plagiarism, the appropriating of written, artistic, or musical composition of another, or portions thereof; or the ideas, language, or symbols of the same and passing them off as the product of the student’s own mind. Plagiarism includes not only the exact duplication of another’s work but also the lifting of a substantial or essential portion thereof.

Regarding written work in particular, direct quotations, statements which are a result of paraphrasing, summarizing the work of another, and other information which is not considered common knowledge must be cited or acknowledged. As long as students adequately acknowledge their sources and as long as there is no reason to believe that they have attempted to pose as the originator, students shall not be charged with plagiarism even though the form of the acknowledgement may be unacceptable. However, students should be aware that most professors require certain forms of acknowledgment and that adequate referencing (or acknowledgement) may be a part of the grading criteria for specific graduate coursework or program requirements. More information on academic misconduct can be found in the Maverick Guide (https://www.coloradomesa.edu/student-services/maverick-guide.html)
GRADUATE DEGREE REQUIREMENTS

Graduate students have higher expectations placed upon them than undergraduate students. These expectations are in the areas of scholarship, participation, leadership, and integrity. Graduate coursework is designed to advance students personally and professionally and produce scholars, researchers, and practitioners educationally empowered as critical thinking citizens and agents of innovation, opportunity, and change.

For more information on policies and procedures concerning graduate study at CMU, please refer to the Graduate Policies and Procedure Manual (https://www.coloradomesa.edu/graduate/documents/GraduatePoliciesProcedures.pdf).

Graduate Degree Requirements
CRedits in a master’s degree program should be designated minimally at the 500 level. The student’s Graduate Advisor, in consultation with the student’s Graduate Committee or Graduate Program Director/Coordinator, should approve all courses applied to graduation requirements.

Up to nine credit hours of course work completed as a non-degree student may be credited subsequently to a degree program with the approval of the Graduate Program Director/Coordinator in consultation with the student’s Graduate Advisor and the program’s Graduate Committee.

Note: Upon prior written permission of the instructor, the academic advisor, and the department head, a currently enrolled undergraduate student may take up to six 500-level graduate credit hours and apply them to an undergraduate degree in addition to a graduate degree.

Doctoral Degree Requirements
Doctoral coursework should be a learning experience for both the student and the faculty member. The nature of doctoral coursework is to expand the boundaries of known knowledge and to create and explore new ideas, processes, artistic endeavors, or other scholarly works that engage members of the discipline. In this process of exploration, the doctoral student is expected to engage in a scholarly project in his/her field or conduct research that contributes to existing bodies of knowledge at a professional level. This effort should include taking what the student knows, incorporating new material and ideas, and advancing the field. Students should produce scholarly works acceptable to the professional communities in their fields as a result of doctoral coursework and other requirements.

Masters Degree Requirements
Coursework progressing toward the master’s degree should illustrate students’ commitment toward mastery of a subject beyond the level expected of an undergraduate student. This mastery should be evidenced in the student’s attendance, participation in discussions, mentoring of others, research quality, and general interactivity within their field of study. Students in a master’s program should be able to assess the quality of research articles in their field, interpret analyses of data, and evaluate the validity of arguments from a variety of sources. In addition, writing at the master’s level should be noticeably advanced compared to that of the undergraduate level. These advances should take the form of engaging the body of literature on a topic, scholarly writing to include literature reviews, appropriate formatting, and extensive analysis of sources of information. As a result of master’s coursework, students should possess the ability to explore, manage and converse regarding information in the field with the integrity necessary for consistency with other professional peers.

Graduate Certificate Requirements
Graduate certificates should contain a minimum of 6 credit hours.

Graduate certificate programs may be embedded within graduate degree programs, but such certificates are not automatically awarded upon the completion of a graduate degree. Students should apply to have the certificate awarded.

Graduate certificates are not required to address all graduate-level student learning outcomes, but are required to address some of the institutionally established outcomes.

Dual-listed Courses
Undergraduate courses may not be taken for graduate credit. Within undergraduate courses that are dual-listed (for example 460/560), the graduate student is expected to perform at a higher level and complete more extensive and challenging academic work than the undergraduates in the same course.

Note: At least 70 percent of a student’s master’s degree program must be in courses that are at the 500 level and not dual listed. All courses in the doctoral program must be at the 500 level or above.

Grades
Grades of “A,” “B,” “C,” “D,” and “F” are used and computed in the GPA. Other marks used are “I” (incomplete); “W,” (withdrawn); “NC,” (no credit); and “P” (passing). At the discretion of graduate programs, Pass/Fail (or “P/F”) grades may be allowed for research, practicum, and thesis courses. Grades of “I,” “W,” “NC,” and “P” are not counted in determining GPA. Courses for which “C,” “D,” “F,” “I,” “W,” or “NC” grades are awarded shall not count in graduate degree programs and shall not satisfy program deficiency requirements.

Incomplete (“I”) grades are temporary grades given to a student only in an emergency case and at the discretion of the instructor.

At the end of the semester following the one in which an “I” is given, the “I” becomes the grade that is submitted by the instructor to the Registrar’s Office. If the instructor does not submit a grade by the deadline for that semester, the grade becomes an “F.” For example, a grade of “I” given spring semester should be addressed by the end of the following fall term unless a longer term is specified by the instructor.

Extension of the time to complete work may be made in exceptional circumstances at the discretion of the instructor. A student with an “I” grade, however, may not change the “I” by enrolling in the same course another semester, except in the case of thesis and dissertation courses, which require continuous enrollment while progressing toward the degree. Grades can be changed, using the Special Grade Report, within the first two weeks of the semester following the receipt of the original grade by the Registrar’s Office.

GPA Requirement
Students must have a GPA at least a 3.0 to graduate.
Graduate Degree Requirements

Students may not apply coursework with a grade of "C" toward graduation requirements for a graduate program. Students may have the option to repeat a course for grade improvement to a "B" or better, depending on individual program guidelines.

As allowed by specific program requirements, students may repeat a maximum of two different courses at the graduate level for up to 6 credit hours. No course may be repeated more than once, except in the case of thesis and dissertation courses, which require continuous enrollment while progressing toward the degree. When a course is repeated, the highest grade earned is computed into the student's GPA. All attempted courses and grades remain in the academic record but are not computed in the overall average. In these cases, transcripts will contain a statement indicating the grade point average has been re-computed and stating the basis for re-computation.

Students with a cumulative grade point average of less than 3.0 are placed on academic probation. Students have one semester to improve to good standing. Two semesters of probationary status may result in dismissal from the graduate program.

Dismissal from Program

Students may be dismissed from a degree program for the following reasons:

The student earns a "D" or "F" in a course.

The student is placed on probation for a second time.

The student fails to maintain a 3.0 cumulative GPA for two semesters.

The student fails the written and/or oral comprehensive examination or its approved equivalent as specified by specific program requirements.

The student submits an unsatisfactory thesis, practicum paper, or culminating activity.

The student exceeds the time allowed for completion of the program prior to completing all degree requirements.

The student has not maintained a "B" or better in all credit-bearing courses.

The student violates the criteria or procedures in this manual or set forth by the department in its graduate handbook.

The student fails to behave in a professional manner, this includes instances of academic misconduct.

The student fails to make satisfactory progress on the remedial terms specified in a formal letter of probation.

The student on probation for earning a "C" earns a "C" in a second course.

The student is found to have committed research misconduct by the Office of Sponsored Programs. (see Section XII.)

Students are notified of their dismissal in a written letter from the Graduate Program Director/Coordinator after the director has consulted with the student's Graduate Committee and the Academic Department Head. The letter will specify the date and exact reason for dismissal and copy will be sent to the Director of Graduate Studies and the University Registrar. Appeals of dismissal follow the Appeals Process outlined in the Graduate Policies and Procedure Manual (https://www.coloradomesa.edu/graduate/documents/GraduatePoliciesProcedures.pdf)

Program Time Limits

Master's degree students have six calendar years from the date of first registration in a Colorado Mesa University graduate program to complete the program. At the end of the fifth year or after 10 semesters, the Graduate Program Director/Coordinator should notify students that they have one academic year or two semesters to complete their program requirements.

Doctoral students have 10 calendar years from the date of first registration in a Colorado Mesa University graduate program to complete the program. At the end of the eighth year or after 16 semesters, the Graduate Program Director/Coordinator should notify students that they have two academic years or four semesters to complete their program requirements.

Students may submit a written request for a time extension to their advisor and the Graduate Program Director/Coordinator, which should be approved by the Academic Department Head and Director of Graduate Studies. Departments or programs may set shorter time requirements.
GRADUATION CHECKLIST

Graduate students must apply for graduation no later than March 1 for fall graduates and October 1 for spring graduates.

Students should consult their Graduate Advisor and have a graduation plan saved to the DegreeWorks Plans tab outlining the final term courses and requirements.

Students also should submit an Intent to Graduate (https://www.coloradomesa.edu/registrar/documents/IntenttoGraduate.pdf) to the Registrar’s Office.

Graduation requirements are reflected in DegreeWorks in accordance with the specific degree plan, the CMU Catalog, the Graduate Policy and Procedures Manual, and individual program requirements that are department-specific and specified in the CMU Catalog. In the event that there is a discrepancy, the Graduate Criteria and Procedures Manual takes precedence. If the DegreeWorks audit does not correctly reflect all remaining requirements, including individual student adjustments, the Registrar or Registrar’s designee should be notified of necessary corrections via email.

The catalog used to meet graduation requirements is normally the one published for the academic term during which the student first enrolled and after which remains continuously enrolled. The student may specify this or a later version of the catalog under which he or she wishes to be evaluated and should then meet the requirements in that catalog. The student may select a subsequent catalog up to and including the current one, provided the student was in attendance at CMU during the selected academic year.

CMU reserves the right to modify or change catalog provisions, based on existing mechanisms, in order to fulfill the CMU Role and Mission. Such changes or modifications may be implemented as applicable to all students at the time the changes are made, unless there is written approval stating otherwise from the Office of Graduate Studies and the Vice President of Academic Affairs. CMU reserves the right to terminate or modify program requirements, content, and the sequence of program offerings from time to time for educational or financial reasons that it deems sufficient to warrant such actions.
RESEARCH ACTIVITIES

Research is an important component of graduate studies. Specific research requirements and activities are defined by each degree program specifically.

Sponsored Programs

The Office of Sponsored Programs mission is to provide support to faculty and other University personnel in obtaining and administering external funds for research and other scholarly activities. Research at Colorado Mesa University includes explorations that lead to the discovery and dissemination of new knowledge, the development of new applications of existing knowledge, the development of new paradigms for teaching and learning, and/or related creative activities in the fine arts.

The Office of Sponsored Programs is responsible for protecting university interests through the review of sponsored project proposals to non-university sources, contract and grant award review and negotiation, administration of award funds, and policy and procedure initiation and implementation.

Human Subjects and Animal Research

All research conducted by faculty, staff, or students that involves human subjects must be reviewed and approved by the Human Subjects Committee (also known as the Institutional Review Board or IRB). All research conducted by faculty, staff, or students that involves animals must be reviewed and approved by the Institutional Animal Care and Use Committee (IACUC). Graduate student research to fulfill course, thesis, or dissertation requirements is also subject to this regulation when animal or human subjects are used.

The Office of Sponsored Programs encourages all students to meet with their advisor if they intend to do research with humans or animals. Human subject research can include something as simple as an interview or survey. Failure to obtain approval by the IRB or IACUC before beginning a research project can be grounds for rejecting a thesis or dissertation and constitutes a serious breach of academic research ethics and federal law.

The policy, procedure, and forms required for human subject or animal research are available on the Sponsored Programs website. In addition, students may contact the Office of Sponsored Programs at osp@coloradomesa.edu.

Research Misconduct

In order to fulfill its obligations and ensure the public’s trust, Colorado Mesa University (CMU), as a state institution of higher education, is committed to maintaining the integrity of all research, scholarship, and creative activities. To this end, CMU will take action to prevent research misconduct and, in cases where misconduct is alleged, will actively investigate the allegations.

In accordance with federal regulations, the University has in place a Misconduct in Research Policy. This policy applies to the conduct of research and/or related activities, whether the research is funded or not and regardless of: the field of study; presentation and/or publication of results; process of applying for funds; expenditure of project funds; and fiscal reporting on the use of project funds. This policy applies to all faculty, students, administrators, and staff on all Colorado Mesa University campuses. A copy of this policy may be found on the Research Policies and Procedures (https://www.coloradomesa.edu/sponsored-programs/policies-procedures) web page.
GRADUATE CERTIFICATE IN APPLIED MATHEMATICS

The Graduate Certificate in Applied Mathematics is intended to provide licensed secondary mathematics teachers the post-secondary teaching credentials required by the Higher Learning Commission and to enable other professionals to enhance their knowledge of applied mathematics. For more complete program information: Applied Mathematics (Graduate Certificate) (p. 358).
GRADUATE CERTIFICATE IN HEALTH INFORMATION TECHNOLOGY SYSTEMS

The Graduate Certificate in Health Information Technology Systems prepares health care professionals to support the collection, management, retrieval, exchange, and/or analysis of information in electronic form, in health care and public health organizations. This role functions to provide comprehensive management of health care information and its secure exchange between health care consumers and providers. Completion of the Graduate Certificate requires 15 semester credit hours of study. The certified specialist works within the health care environment interacting with both health care professionals and Information Technology experts. The following subject areas are offered in the certificate program: Introduction to Healthcare Informatics; Database Management Systems; Information Systems Security and Privacy; Information Systems Life Cycle; Semantic Representation.

Training and coursework towards the certificate maintains a broad perspective of health care informatics while providing an in-depth knowledge of nursing informatics. The same graduate admission process applies to the Graduate Certificate Program.

Program of Study

See Health Information Technology Systems (Graduate Certificate) (p. 451) for a complete overview of all requirements, important information, and suggested course sequencing for the program.
GRADUATE CERTIFICATE IN Rhetoric and Literary Studies

The graduate certificate in Rhetoric and Literary Studies prepares those who already have a BA in English and need advanced expertise to teach composition and literature in concurrent enrollment high school settings and undergraduate institutions of higher education. The program also allows students to explore particular fields in greater depth, test aptitude for graduate school, or take steps towards an MA in English or Education.

The program focuses on key expertise that forms a well-rounded teacher in an English program:

- Rhetoric and Composition
- Literature
- Literary Theory
- Creative writing
- Linguistics

The curriculum invites a deep examination into the texts, contexts, and theories of language, literature, and writing. Students gain a better sense of the field and contribute their own scholarly voice to the conversation. They become close readers, critical thinkers, and creative and insightful writers.

For more information, including program requirements, see Rhetoric and Literary Studies (Graduate Certificate) (p. 367).
**GRADUATE CERTIFICATE IN SOCIAL SCIENCE**

The Graduate Certificate program in Social Science provides licensed secondary social science teachers the credentials required by the Higher Learning Commission to teach concurrent college History or Political Science courses. The program also provides professionals and post-graduates an opportunity to take individual courses to enhance their education in History and Political Science or to serve as a bridge to other graduate programs in the social sciences.

Completion of the Graduate Certificate in Social Science requires 18 semester hours of study with an option to complete a Master of Arts in Education at Colorado Mesa University. The same graduate admission process applies to the Master of Arts program and the Graduate Certificate program.

**Contact Information**

Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

See Social Science (Graduate Certificate) (p. 369) for information on program requirements.
GRADUATE CERTIFICATES IN EDUCATION

The Center for Teacher Education offers graduate certificates in Educational Leadership, English for Speakers of Other Languages, Exceptional Learner/Special Education, and Teacher Leader. All four of these certificates may lead to a Master of Arts in Education (p. 119) if the candidate chooses to pursue that track. Three of the four graduate certificate programs are Colorado Department of Education approved, endorsement programs:

- Educational Leadership (EDLD) = Principal License
- English for Speakers of Other Languages (ESOL) = Culturally and Linguistically Diverse Education Grades K-12
- Exceptional Learner/Special Education (EDSE) = Special Education Generalist Ages 5-21

Specific requirements for each graduate certificate in education are linked below. For information on the Initial Teacher Licensure graduate certificates, please see graduate programming.

- Educational Leadership (EDLD) (Graduate Certificate) (p. 360)
- English for Speakers of Other Languages (ESOL) (Graduate Certificate) (p. 362)
- Exceptional Learner/Special Education (EDSE) (Graduate Certificate) (p. 363)
- Teacher Leader (EDTL) (Graduate Certificate) (p. 370)
INITIAL TEACHER LICENSURE

Students already holding a Bachelor’s degree may pursue an initial teaching license at CMU in Elementary, Secondary, or K-12 Physical Education. Secondary licensure may be obtained in: Biology, History, English, Mathematics, Geology, or Spanish.

For students pursuing coursework and preparation that leads solely to an initial teaching license, the Center for Teacher Education offers an intensive post-baccalaureate preparation program that can be completed in 12 months. The same coursework is also available at the undergraduate level in a 3-4 semester sequence at a somewhat slower pace. Either of these options lead to a recommendation for Colorado’s initial teaching license with successful program completion.

The initial teacher preparation coursework is incorporated in the MA, Education degree, allowing a student to complete teacher licensure and a master’s degree in five semesters. The coursework begins at the post-baccalaureate initial teacher licensure level and includes internship experiences. The Master of Arts in Education core content follows in the second year; these courses are shown in the Graduate Education programs section.

First steps require review of bachelor’s degree or other previous coursework transcripts. Leveling courses may be required prior to admission into the graduate program. Please contact the Center for Teacher Education at 970.248.1618 for more information or see the Center for Teacher Education website (https://www.coloradomesa.edu/teacher-education).

Elementary ITL
- Education: Initial Teacher Licensure - Elementary (Graduate Certificate) (p. 365)
- Education: Initial Teacher Licensure - Elementary (MA, Education) (p. 347)

Secondary ITL
- Education: Initial Teacher Licensure - Secondary (Graduate Certificate) (p. 366)
- Education: Initial Teacher Licensure - Secondary (MA, Education) (p. 349)

K-12 Physical Education ITL
- Education: Initial Teacher Licensure K-12 Physical Education (Graduate Certificate) (p. 352)
- Education: Initial Teacher Licensure K-12 Physical Education (MAEd) (p. 350)

Up to nine credit hours may be taken as non-degree seeking and later applied to program requirements. Up to nine graduate credit hours of applicable courses, with a grade of B or higher, may be transferred from a regionally accredited institution into the master’s degree program. Courses for transfer must be approved by the CTE Graduate Committee to meet program requirements. MA core classes are not accepted for transfer.
MASTER OF ARTS IN EDUCATION

The degree is designed using the cohort model with a group of participants completing all requirements in a four-semester sequence. The current cognate areas are Applied Mathematics, Educational Leadership (EDLD), English for Speakers of Other Languages (ESOL), Rhetoric and Literary Studies, Social Sciences, Teacher Leader (EDTL), Exceptional Learner (EDSE) and Initial Teaching Licensure (ITL) (Elementary, Secondary, Physical Education).

The Master of Arts in Education is designed as a dynamic program to meet the needs of people already holding a degree who wish to earn teacher licensure or current teachers who wish to gain expertise in additional state endorsement areas. The degree is awarded after successful completion of 30-36 semester hours of college coursework aligned with site-based internship experiences. The program is designed to provide the student with eleven hours of core knowledge in educational design, theory, assessment, technology and research. The additional hours allow the student to focus on a particular endorsement area.

Admission to the program follows the guidelines for graduate admission procedures indicated in this catalog. The application packet is available online (coloradomesa.edu/teachered/masters.html) and lists additional admissions materials required for acceptance.

Capstone

The Master of Arts in Education requires the successful completion of a capstone experience: either a capstone presentation or competency examination. See individual program information for details.

Specific requirements for each Master's degree in education are linked below. Each cognate group can also be completed as a graduate certificate for candidates not wishing to complete a full master’s degree program. The same graduate admissions process applies to graduate certificates. Requirements for graduate certificates may be found under graduate programming.

- Applied Mathematics (MAEd) (p. 340)
- Educational Leadership (EDLD) (MA, Education) (p. 342)
- English for Speakers of Other Languages (ESOL) (MA, Education) (p. 344)
- Exceptional Learner/Special Education (EDSE) (MA, Education) (p. 345)
- Initial Teacher Licensure - Secondary (MA, Education) (p. 349)
- Initial Teacher Licensure - Elementary (MA, Education) (p. 347)
- Initial Teacher Licensure - K-12 Physical Education (MA, Education) (p. 350)
- Rhetoric and Literary Studies (MAEd) (p. 355)
- Social Science (MAEd) (p. 357)
- Teacher Leader (MA, Education) (p. 353)
MASTER OF BUSINESS ADMINISTRATION

The Colorado Mesa University MBA is a challenging program designed to prepare graduates for the changing business world. The degree is awarded after successful completion of 36–45 semester hours of rigorous study. The program is designed to provide the student with a broad background in business while allowing the student to focus on a specified area of study, if desired. To this end, students acquire knowledge of management operations; an appreciation of the interrelationships of the functional areas of business; an understanding of the economic, political and social environment in which businesses function; and behavioral skills that are essential in the manager’s role in the implementation of business decisions. The MBA program endeavors to provide an atmosphere conducive to the development of each student’s ability to think in a creative manner. The program makes extensive use of seminars, group projects, case studies and independent research.

The Colorado Mesa University MBA has two basic components: a 30 hour core and a 6–15 hour track, which includes a research component. The program is open to all baccalaureate-holding applicants who can demonstrate academic preparation in the core requirements including statistics, computer literacy, management, finance, marketing, and accounting regardless of the undergraduate field of study. Students without this background or adequate depth of background will be required to complete leveling courses.

For information about admission to the MBA Program, please see department specific requirements (https://www.coloradomesa.edu/business/degrees/mba).

Candidates not meeting all the specific requirements may be admitted under conditional status.

MBA for Those Without a Business Degree

The opportunity for study is available for the non-business degree holder. For these students, a series of leveling courses will be identified individualized to each student.

Leveling Courses

An applicant must demonstrate—through academic transcripts, CLEP, MOOC, or a formal test-out process—an appropriate background in Financial Accounting, Business Information Technology, Managerial Finance, Principles of Management, Principles of Marketing, and Business Statistics. An applicant without this background will be required to score at a sufficient level on an entrance qualifying examination administered by the CMU MBA Office. The exam covers the topics listed above. A student can prepare for the exam through independent study based on a program-supplied study guide. CMU courses that provide appropriate background are: ACCT 201, CISB 101, FINA 301, MANG 201, MARK 231, and CISB 241 or STAT 241. This requirement must be met prior to acceptance to the MBA.

General Policies

Up to nine credit hours may be taken in a “non-degree seeking student” status and later applied to the program requirements. Up to thirty percent of the credit hours required, with a grade of “B” or higher, may be transferred from a regionally accredited institution into the program. Additional information may be found in the Transfer Credit section.

See Business Administration (MBA) (p. 204) for a complete overview of all requirements, important information, and suggested course sequencing for the program.

Please see the MBA Director for Track Courses (6–15 hours). Tracks include the Professional Track, the Management Information Systems Track, the Sports Management Track, the Medical Informatics Track, and the Corporate Trainer Track.

Students are required to meet with their advisor and submit information by the appropriate deadlines.

All graduate courses for the MBA are listed in the Course Descriptions (p. 751) section of this catalog in the prefix areas of Accounting (ACCT) (p. 753), Business Administration (BUGB) (p. 782), Computer Information Systems (CISB) (p. 789), Economics (ECON) (p. 808), Education (EDUO) (p. 809), Entrepreneurship (ENTR) (p. 835), Finance (FINA) (p. 841), Health Sciences (HSCI) (p. 864), Human Resource Management (HRMA) (p. 871), Kinesiology (KINE) (p. 874), Management (MANG) (p. 881), Marketing (MARK) (p. 883), and Nursing (NURS) (p. 908).
The Colorado Mesa University Master of Physician Assistant Studies (MPAS) Program will not commence unless and until both the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA) and the Higher Learning Commission have approved the program. CMU has applied for Accreditation - Provisional from the ARC-PA. CMU anticipates matriculating its first class in January 2019, pending achieving Accreditation - Provisional status at the September 2018 ARC-PA meeting. Accreditation - Provisional is an accreditation status granted when the plans and resource allocation, if fully implemented as planned, of a proposed program that has not yet enrolled students appear to demonstrate the program’s ability to meet the ARC-PA Standards or when a program holding accreditation-provisional status appears to demonstrate continued progress in complying with the Standards as it prepares for the graduation of the first class (cohort) of students. The program will not commence in the event that provisional accreditation is not received.

For updates on program accreditation and general program information, please visit the Masters of Physician Assistant Studies (https://www.coloradomesa.edu/kinesiology/graduate/pa-program) website.

For a complete list of program requirements, please see the program sheet (p. 613).
 MASTER OF SCIENCE IN NURSING

The Master of Science in Nursing (MSN) program is designed for students who already possess a baccalaureate degree in nursing. The MSN degree provides graduates with a foundation for practice as a leader and educator in health care systems or academic settings. The MSN program is online, providing flexibility for students to remain in their current work positions using online course delivery methods. MSN graduates are prepared to advance to higher levels of nursing education including the Doctor of Nursing Practice (DNP) or doctoral programs at other institutions.

The MSN program contains 18 credit hours of core knowledge essential for practice as a leader including coursework in nursing theory and research, organization leadership, health policy and health information systems; and three credit hours for a final capstone or thesis project. There are three 15-credit hour cognates to choose from: Advanced Nursing Practice Cognate, Nursing Education Cognate, or Leadership and Administration Cognate. Graduates of master’s degree programs in nursing are prepared with additional knowledge and clinical expertise building on baccalaureate nursing practice. The MSN program at Colorado Mesa University is based on the “Essentials of Masters Education for Advanced Nursing Practice” identified by the American Association of Colleges of Nursing. The nine AACN Essentials include scientific background for practice, organizational and systems leadership, quality improvement and safety, translating and integrating scholarship into practice, informatics and healthcare technology, healthcare policy and advocacy in health care and for inter-professional collaboration for improving patient and population health outcomes, clinical prevention and population health for improving health, and master’s-level nursing practice.

Admission to the MSN Program

See Department specific requirements.

Candidates not meeting all of the above requirements may be admitted under conditional status.

General Policies

Up to nine credit hours may be taken in a “non-degree seeking student” status and later applied to the program requirements. Up to thirty percent of credit hours of applicable courses, with a grade of “B” or higher, may be transferred from a regionally accredited institution into the program. Additional information may be found in the Graduate Policies and Procedures Manual (https://www.coloradomesa.edu/graduate/documents/GraduatePoliciesProcedures.pdf).

The Department of Health Sciences (https://www.coloradomesa.edu/health-sciences) offers three Master of Science in Nursing cognate options. See the programs below for complete overviews of all requirements, important information, and suggested course sequencing.

- Advanced Nursing Practice, Nursing (MSN) (p. 592)
- Nursing Education, Nursing (MSN) (p. 594)
- Nursing Leadership and Administration, Nursing (MSN) (p. 596)
MASTER OF SCIENCE IN
SPORT MANAGEMENT

Program Overview
The Master of Science in Sport Management serves to develop students’ conceptual skills, theoretical comprehension, and practical knowledge in order that they are prepared to become the next generation of leaders in the sport industry. The degree leads to a wide variety of career choices. Sport management graduates work in school, university and college settings as athletic administrators, public relations/marketing directors, or in professional or amateur sports areas.

Admission Requirements
- Applicants must have a baccalaureate degree from a regionally accredited four-year institution.
- Applicants must achieve a score of 385 or higher on the Miller Analogies Test or a score of 286 or higher on the Graduate Record Examination (850 on the old exam) (verbal and quantitative) or 380 on the GMAT. Students must request the scores be sent to the Admissions Office.
- Applicants must have a grade point average (GPA) of at least 3.0 on a 4.0 scale on the most recent 60 credit hours.
- Applicants must provide a formal Statement of Goals that should explain in at least 500 words why he/she wants to be admitted into the program and what he/she plans to do with the degree.
- Applicants must provide a current resume or curriculum vitae.
- Applicants must provide two letters of recommendation from individuals who can speak to the applicant’s academic potential and professional capabilities. One should be from a university faculty member who is familiar with the applicant’s work as a student. One should come from a supervisor in which he/she has evaluated the applicant’s current or prior work.

Conditional Admission Requirements
- Students not satisfying the unconditional admission requirements may be conditionally admitted to the program pending satisfactory completion of the first 9 semester hours with a 3.0 grade point average.
- Students not satisfying conditional admission requirements will be dropped from the program for one calendar year, after which time the student must petition for readmission.

Program Requirements
For a complete list of program requirements, please see the program sheet (p. 674).

Program Accreditation
Colorado Mesa University is currently seeking approval from the Higher Learning Commission for the Master of Science in Sport Management. Such approval is expected, but cannot be guaranteed and Colorado Mesa University makes no guarantee of the approval of this program. Students wishing to take graduate course work in Sport Management may do so with the understanding that until such approval is obtained, no degree can be offered or sanctioned by the institution.
DOCTOR OF NURSING PRACTICE

The Doctor of Nursing Practice (DNP) degree is designed for those nurses who are interested in advance practice nursing as a clinical leader. The Family Nurse Practitioner (FNP) track DNP graduates are prepared as clinical experts in the delivery of primary care across populations. The DNP-FNP focus on critical thinking, leadership, and policy skills necessary to advocate and create changes in healthcare practice for populations and individuals. The program is an online format, providing flexibility for students to remain in their current work positions. Optional opportunities for personal interaction are included with faculty and peers in focused intensive sessions at selected points during each semester. Clinical coursework and immersion experiences are conducted in primary care settings. Students complete most clinical requirements in their home community, but may need to travel for specialized clinical experiences including rural health care settings. Admission to the University does not guarantee admission to the program.

The DNP program includes coursework in nursing theory and research, health information systems, organization leadership, health policy, quality improvement, statistics, and evidence-based practice; as well as credit hours in advance practice nursing cognate courses that develop FNP knowledge and skills to provide primary care for individuals across the lifespan. Content includes chronic illness management, health promotion and disease prevention and didactic and clinical content specific to patient populations within the FNP scope of practice. Eight academic credit hours are dedicated to the development, implementation and evaluation of the DNP scholarly project. The program includes over 1000 hours of immersion in clinical practice to build and assimilate knowledge for advanced practice with a high degree of complexity. These experiences also provide the context within which the final DNP scholarly project is completed.

The DNP curriculum at Colorado Mesa University is based on the “Essentials of Doctoral Education for Advanced Nursing Practice” identified by the American Association of Colleges of Nursing, the National Organization of Nurse Practitioner Faculty’s Independent Practice Competencies and Primary Care Competencies for FNP. The ten AACN Essentials include scientific underpinnings for practice, organizational and systems leadership for quality improvement and safety, clinical scholarship and analytical methods for evidence-based practice, information systems/technology and patient care technology for the improvement and transformation of health care, healthcare policy for advocacy in health care, inter-professional collaboration for improving patient and population health outcomes, clinical prevention and population health for improving health, advance nursing practice, and specialty-focused competencies to prepare graduates for national specialty certification as an advance practice nurse. Graduates prepared for an advance practice role as a Family Nurse Practitioner will demonstrate practice expertise, specialized knowledge, and expanded responsibility and accountability in the care and management of individuals and families.

The DNP degree is built upon a generalist foundation acquired through a baccalaureate or advanced generalist master’s in nursing. The curriculum may be individualized for students based on their prior education and experience. A candidate with a baccalaureate degree would take all courses in the program; someone who already possesses a master’s degree would take coursework to achieve competencies not previously attained. Some students may elect to complete a MSN as they progress toward their DNP. The DNP is the final step on the nursing career ladder at Colorado Mesa University.

Admission to the DNP Program
See Department specific requirements.
Candidates not meeting all of the above requirements may be admitted under conditional status.

General Policies
Up to nine credit hours may be taken in a “non-degree seeking student” status and later applied to the program requirements. Up to 30% of the credit hours of applicable courses, with a grade of “B” or higher, may be transferred from a regionally accredited institution into the program. Additional information may be found in the Transfer Credit section.

Program of Study
See Doctor of Nursing Practice - Family Nurse Practitioner (DNP-FNP) (p. 590) for information on program requirements.
The Center for Teacher Education offers licensure programs in Elementary, Secondary, K-12, and Early Childhood. An initial license to teach in public schools in the State of Colorado requires each teacher candidate to complete a degree including a sequence of professional education courses that includes extensive field experience in classrooms. Teaching licensure coursework and field experiences are completed through the Center for Teacher Education, while the content degree coursework is completed through the academic department of the discipline area, with both departments coordinating to assist teacher candidates in completing the program. Formal admission to the Center for Teacher Education is required of all students expecting to obtain a Colorado Educator License in any teaching field.

In addition to the Bachelor’s programs that lead to a teaching license, for students who already possess an undergraduate degree The Center for Teacher Education also offers an intensive, post-baccalaureate pathway to a teaching license through Initial Teacher Licensure programs (See Graduate Programs in Education below).

The Center for Teacher Education also offers added endorsement, graduate programs in Special Education Generalist, Culturally and Linguistically Diverse, and Principal License. These graduate, endorsement programs may be completed as graduate certificates or applied towards a Master of Arts in Education (See Graduate Programs in Education below).

In order to complete all licensure requirements in a timely manner it is important that students contact the Center as soon as possible after enrolling at Colorado Mesa University. For information on the graduate and/or MA programs, see the Graduate Programs section.

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- Elementary Education Licensure – Undergraduate (p. 126)
- Graduate Programs in Education (p. 129)
- K-12 Education Licensure – Undergraduate (p. 128)
- Secondary Education Licensure – Undergraduate (p. 127)

Contact

Center for Teacher Education
Colorado Mesa University
Dominguez Hall, Suite 109
970.248.1786
ELEMENTARY EDUCATION LICENSURE – UNDERGRADUATE

(College Initial Teaching License in Elementary Education, Grades K through 6.)

Students should meet with a Center for Teacher Education advisor as soon as possible in order to obtain information specific to the elementary education license program. The components of the Colorado Mesa University elementary license program are as follows:

1. Academic Major: All elementary license students must complete the requirements for a Bachelor of Arts in Liberal Arts (Interdisciplinary Studies).
2. Admission: Formal admission to the Center for Teacher Education.
3. Professional Education Sequence for Elementary Teacher License: Coursework must be taken in the prescribed sequence; see Suggested Course Plan in the links below.

   Education: Elementary Teaching, English, Liberal Arts (BA) (p. 495)

   Education: Elementary Teaching, Mathematics, Liberal Arts (BA) (p. 499)

   Education: Elementary Teaching, Social Science, Liberal Arts (BA) (p. 502)
SECONDARY EDUCATION LICENSURE – UNDERGRADUATE

Colorado Initial Teaching License in Secondary Education, Grades 7 through 12, Bachelor of Arts or Science in one of the following academic disciplines: Biology, English, History, Mathematics, Physical Science (Geology), or Spanish

Students should meet with a Center for Teacher Education advisor as soon as possible in order to obtain information specific to the secondary education license programs. The following are components of the Colorado Mesa University secondary license programs:

1. Academic Major: All secondary license students must complete the requirements for a Bachelor of Arts or Science in one of the following academic disciplines: Biology, English, History, Mathematics, Physical Science (Geology), or Spanish.
2. Admission: Formal admission to the Center for Teacher Education.
3. Professional Education Sequence for Secondary Teacher License: EDUC Coursework must be taken in the prescribed sequence. Refer to the applicable program listed below.

- Education: Secondary Education, Biological Sciences (BS) (p. 196)
- Education: Secondary Education, English (BA) (p. 391)
- Education: Secondary Education, Geosciences (BS) (p. 433)
- Education: Secondary Education, History (BA) (p. 457)
- Education: Secondary Education, Mathematics (BS) (p. 536)
- Education: Secondary Education, Spanish (BA) (p. 662)
K-12 EDUCATION LICENSURE – UNDERGRADUATE

(Colorado Initial Teaching License in Art, Music or Kinesiology, Grades Kindergarten through 12)

Students should meet with a Center for Teacher Education advisor as soon as possible in order to obtain information specific to the K-12 Education license program in Art, Music or Kinesiology. Following are the components of the Colorado Mesa University K-12 teacher license programs.

1. Academic Major: K-12 license students must complete the requirements for the Bachelor of Arts in Kinesiology, a Bachelor of Fine Arts in Art, or a Bachelor of Music Education.
2. Admission: Formal admission to the Center for Teacher Education.
3. Professional Education Sequence for K-12 Teacher Licensure: Coursework must be taken in the prescribed sequence. Refer to the applicable program listed below.

- Education: K-12 Education, Art (BFA) (p. 169)
- Education: K-12 Education, Kinesiology (BA) (p. 486)
- Education: K-12 Music Education (BME) (p. 563)

All teacher license programs require taking the PRAXIS II professional license exams prior to beginning the student teaching semester.
GRADUATE PROGRAMS IN EDUCATION

For information on graduate programs in Education, see the following pages:

- Education: Applied Mathematics (MAEd) (p. 340)
- Education: Educational Leadership (EDLD) (Graduate Certificate) (p. 360)
- Education: Educational Leadership (EDLD) (MA, Education) (p. 342)
- Education: English for Speakers of Other Languages (ESOL) (Graduate Certificate) (p. 362)
- Education: English for Speakers of Other Languages (ESOL) (MA, Education) (p. 344)
- Education: Exceptional Learner/Special Education (EDSE) (Graduate Certificate) (p. 363)
- Education: Exceptional Learner/Special Education (EDSE) (MA, Education) (p. 345)
- Education: Initial Teacher Licensure - Elementary (Graduate Certificate) (p. 365)
- Education: Initial Teacher Licensure - Elementary (MA, Education) (p. 347)
- Education: Initial Teacher Licensure - Secondary (Graduate Certificate) (p. 366)
- Education: Initial Teacher Licensure - Secondary (MA, Education) (p. 349)
- Education: Initial Teacher Licensure K-12 Physical Education (Graduate Certificate) (p. 352)
- Education: Initial Teacher Licensure K-12 Physical Education (MAEd) (p. 350)
- Education: Rhetoric and Literary Studies (MAEd) (p. 355)
- Education: Social Science (MAEd) (p. 357)
- Education: Teacher Leader (EDTL) (Graduate Certificate) (p. 370)
- Education: Teacher Leader (MA, Education) (p. 353)
AREAS OF STUDY

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• Addiction Studies (p. 140)
• Agriculture Science (p. 142)
• Animation, Film, Photography, and Motion Design (p. 145)
• Applied Anthropology and Geography (p. 148)
• Applied Business (p. 151)
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• Aviation Technology (p. 179)
• Baking and Pastry (p. 182)
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• Chemistry (p. 251)
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• Communication Studies (p. 281)
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• Economics (p. 328)
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• Education: Teacher Licensure (p. 340)
• Electric Lineworker (p. 373)
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• Emergency Management and Disaster Planning (p. 377)
• Emergency Medical Services (p. 379)
• Energy Management/Landman (p. 385)
• Engineering (p. 387)
• English (p. 388)
• Environmental Science and Technology (p. 399)
• Exercise Science (p. 406)
• Finance (p. 412)
• Fitness and Health Promotion (p. 413)
• Forensic Anthropology (p. 417)
• Forensic Investigation - Criminal Justice (p. 419)
• Forensic Investigation - Psychology (p. 420)
• Forensic Science (p. 421)
• Geographic Information Science and Technology (p. 423)
• Geosciences (p. 426)
• Gerontology (p. 441)
• Graphic Design (p. 447)
• Health Information Technology Systems (p. 451)
• History (p. 454)
• Hospitality Management (p. 463)
• Humanities (p. 469)
• Information and Communication Technology (p. 471)
• Insurance (p. 478)
• International Studies (p. 480)
• Jazz Studies (p. 482)
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• Transportation Services (p. 704)
• Visual Communications (p. 717)
• Viticulture and Enology (p. 719)
• Water Quality Management (p. 725)
Acceptance of registration by Colorado Mesa University and admission to any education program at the University does not constitute a contract or warranty that the University will continue to offer the program in which a student is enrolled. The University expressly reserves the right to change, phase out or discontinue any program. The listing of courses contained in any University bulletin, catalog or schedule is by way of announcement only and shall not be regarded as an offer of contract. The University expressly reserves the right to:

1. add or delete programs and/or courses from its offerings,
2. change times or locations of courses or programs,
3. change academic calendars without notice,
4. cancel any course for insufficient registrations, or
5. revise or change rules, charges, fees, schedules, courses, requirements for degrees, and other policies or regulations affecting students, including, but not limited to, evaluation standards, whenever the same is in the best interests of the University.

NOTE: Date in parentheses following faculty member’s name indicates the first calendar year of a full-time faculty appointment at Colorado Mesa University or Western Colorado Community College. Only full time faculty are listed; prior temporary or part-time service is not indicated. Faculty members with a temporary appointment do not have a year listed.

NOTE: Students should consult the Financial Aid Office for eligibility requirements of undergraduate & graduate certificates.

**Assessment of Student Learning**

Colorado Mesa University is committed to providing quality education for students across all disciplines through a supportive learning environment. Assessment of student learning is a process used by program faculty to measure student progress in the knowledge and skills necessary to be successful after graduation. All students will participate in the process by engaging in assessment activities through submitting course assignments, taking examinations, completing surveys or writing standardized tests. Evidence collected through assessment assists faculty in program improvement at the certificate, undergraduate and graduate level.

Student learning at CMU is centered on specialized knowledge and applied learning in the discipline as well as the intellectual skills of communication fluency, quantitative fluency and critical thinking. Part of assessment also involves student learning at the co-curricular level in areas such as student life or service learning. Students will be expected to participate in assessment and provide honest feedback for evaluation. Data gathered will be evaluated in aggregate form and reported to respective members of the CMU community as well as accreditation organizations. Assessment is a key element to improve teaching and learning, and to enhance the quality of programs at the University.
ACCOUNTING

Program Description
Accounting is a degree with lots of possibilities. Every business needs accounting expertise, whether it’s a Wall Street law firm, a professional sports team, a movie production company or a rock band. With the proper accounting education, employment options are endless.

The public accounting degree provides students with basic business skills as well as the accounting knowledge needed to pass the Certified Public Accountant (CPA) exam. Graduates of CMU’s program have a very high CPA exam pass rate and are heavily recruited by local and regional CPA firms.

The general accounting concentration is designed for undergraduate students who do not wish to pursue CPA certification. This program provides students with basic business skills as well as accounting knowledge needed to work in an accounting department in private industry or government.

The accounting minor offers students majoring in other areas the opportunity to enhance their degrees with basic accounting knowledge. Since all businesses rely heavily on accounting functions, graduates with an accounting minor have a competitive advantage, particularly in the area of decision-making. Accounting knowledge is critical for business and, independent of major, the more accounting knowledge students have, the better prepared students will be for management positions.

The accounting program also offers an option of a five year (3+2) program which allows students to graduate with a Bachelor of Science in Accounting and a Master of Business Administration. This combination prepares students to earn the hours needed to sit for the CPA exam. Through careful planning and coordination, students can complete their four-year degree and begin their graduate degree, finishing both simultaneously.

Special Requirements
To be admitted to the accounting program at Colorado Mesa University, students must meet certain requirements. Contact the Department of Business for specific requirements. Note that admission to the University does not guarantee admission to the program.

1. Prior to admission, potential accounting majors will be given the classification code for “pre-accounting.” To be eligible for admission to the program, a student must have successfully completed the following:
   a. 30 credit hours (entering freshmen are not eligible) with a 2.75 GPA or higher;
   b. Freshman English (ENGL 111 and ENGL 112)
   c. Nine hours of the Essential Learning requirements, excluding the English requirement listed above;
   d. College Algebra (MATH 113) or higher;
   e. Business Information Technology (CISB 101);
   f. Principles of Management (MANG 201);
   g. Financial and Managerial Accounting (ACCT 201 & ACCT 202) with a minimum 2.5 GPA.

2. An application for admission should be submitted to the Accounting Program Admission Committee when the above requirements have been met. Specific admission information may be obtained from the department. Only students admitted to the Accounting Program will be allowed to enroll in upper division accounting courses with the exception of Intermediate Accounting I and II and/or Cost Accounting I and II.

3. A grade of “D” in any one of the courses specifically identified above is not acceptable.

4. Exceptions to any of the above requirements may be made by the Admissions Committee in special circumstances.

Contact Information
Department of Business
Dominguez Hall 301
970.248.1778

Bachelors/Minors
• Accounting (Minor) (p. 138)
• Bachelor of Science in Accounting + Master of Business Administration (3+2) (p. 132)
• General Accounting, Accounting (BS) (p. 133)
• Public Accounting, Accounting (BS) (p. 135)

Bachelor of Science in Accounting + Master of Business Administration (3+2)
The Public Accounting concentration provides students with basic business skills as well as the accounting knowledge needed to pass the Certified Public Accountant (CPA) exam. Graduates of CMU’s program have a very high CPA exam pass rate and are heavily recruited by local and regional CPA firms.

The General Accounting concentration is designed for undergraduate students who do not wish to pursue CPA certification. This program provides students with basic business skills as well as accounting knowledge needed to work in an accounting department in private industry or government.

The accounting minor offers students majoring in other areas the opportunity to enhance their degrees with basic accounting knowledge. Since all businesses rely heavily on accounting functions, graduates with an accounting minor have a competitive advantage, particularly in the area of decision making. Accounting knowledge is critical for business and, independent of major, the more accounting knowledge students have, the better prepared students will be for management positions. For more information about our accounting degrees and programs, please see Bachelor of Science in Public Accounting (https://www.coloradomesa.edu/business/degrees/accounting.html).

The accounting program also offers an option of a five year (3+2) program which allows students to graduate with a Bachelor of Science in Accounting and a Master of Business Administration. This combination prepares students to earn the hours needed to sit for the CPA exam. Through careful planning and coordination, students can complete their four-year degree and begin their graduate degree, finishing both simultaneously. For more information, please see 3+2 Program (https://www.coloradomesa.edu/business/degrees/mba/3+2-program-.html).

The Colorado Mesa University Master of Business Administration (MBA) degree is a challenging program designed to prepare graduates for the changing business world. The degree is awarded after successful
completion of 36-45 semester hours of rigorous study. The program is
designed to provide the student with a broad background in business
while allowing the student to focus on a specified area of study, if
desired. To this end, students acquire knowledge of management
operations; an appreciation of the interrelationships involved in business;
an understanding of the economic, political and social environment in
which businesses function; and behavioral skills that are essential in
the manager’s role in the implementation of business decisions. The
MBA program endeavors to provide an atmosphere conducive to the
development of each student’s ability to think in a creative manner and to
effectively problem solve. The program makes extensive use of seminars,
group projects, case studies and independent research. More information
about our MBA Program can be found at MBA Program Information
(https://www.coloradomesa.edu/business/degrees/mba).

**General Accounting, Accounting (BS)**

Degree: Bachelor of Science
Major: Accounting
Concentration: General Accounting
Program Code: 3104

**About This Major . . .**

Accounting is the one degree with 360 degrees of possibilities. Every
business needs accounting expertise, whether it’s a Wall Street law
firm, a professional sports team, movie production company, or a rock
band. With the proper accounting education, your employment options
are endless. This program is designed for undergraduate students
who do not wish to pursue CPA certification. The General Accounting
concentration provides students with basic business skills as well as the
accounting knowledge needed to work in an accounting department in
private industry or government.

For more information on what you can do with this major, go to http://
www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate
proficiency in critical thinking, communication fluency, quantitative
fluency, and specialized knowledge/applied learning. In addition to these
campus-wide student learning outcomes, graduates of this major will be
able to:

1. Integrate knowledge from multiple functional areas of business to
   solve business problems and to develop sound business strategies.
   (Specialized Knowledge)
2. Apply business knowledge and skills in appropriate business
   contexts and transfer knowledge and skills to new business
   situations. (Critical Thinking)
3. Communicate clearly, appropriately, and persuasively to the
   business audience, both orally and in writing, including individual
   presentations. (Communication Fluency)
4. Analyze business data critically, reason logically, and apply
   quantitative analysis methods correctly to develop appropriate
   business conclusions. (Quantitative Fluency)
5. Effectively work as a team. (Applied Learning)
   (Applied Learning)
7. Produce professional business work products. (Applied Learning)
8. Practice principle-based ethics in decision making both personally
   and professionally. (Applied Learning)
9. Prepare and interpret financial information. (Specialized Knowledge)

**Institutional Degree Requirements**
The following institutional degree requirements apply to all CMU
baccalaureate degrees. Specific programs may have different
requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of
  credit at CMU, with at least 15 semester hours in major discipline
  courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the
  Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/
  certificate.
- No more than six semester hours of independent study courses can
  be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by
  examination, credit for prior learning, cooperative education
  and internships, cannot exceed 30 semester credit hours for a
  baccalaureate degree. A maximum of 15 of the 30 credits may be for
  cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used
  for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement
  Test) requirements are identified under Program-Specific Degree
  Requirements.
- The Catalog Year determines which program sheet and degree
  requirements a student must fulfill in order to graduate. Visit with
  your advisor or academic department to determine which catalog
  year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in
  the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements
below. If a course is an Essential Learning option and a requirement for
your major, you must use it to fulfill the major requirement and make a
different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
</tbody>
</table>
General Accounting, Accounting (BS)

Social and Behavioral Sciences
Select one Social and Behavioral Sciences course 3
Select one Social and Behavioral Sciences course 3

Fine Arts
Select one Fine Arts course 3

Natural Sciences
Select one Natural Sciences course 3
Select one Natural Sciences course with a lab 4
Total Semester Credit Hours 31

1 Must receive a grade of “C” or better and must be complete by the time the student has 60 semester hours.
2 This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3 7 semester hours, one course must include a lab.

Other Lower Division Requirements

Code Title Semester Credit Hours
Wellness Requirement
KINE 100 Health and Wellness 1
Select one Activity course 1
Essential Learning Capstone
ESL 290 Maverick Milestone 3
ESL 200 Essential Speech 1
Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
27 semester hours. These courses, plus Essential Learning English & Math requirements, must be completed within the student's first 60 hours.

Code Title Semester Credit Hours
ACCT 201 Principles of Financial Accounting 3
ACCT 202 Principles of Managerial Accounting 3
BUGB 211 Business Communications 3
CISB 101 Business Information Technology 3
CISB 210 Fundamentals of Information Systems 3
ECON 201 Principles of Macroeconomics-GTSS1 3
ECON 202 Principles of Microeconomics-GTSS1 3
CISB 241 Introduction to Business Analysis 3
or STAT 241 Introduction to Business Analysis 3
MANG 201 Principles of Management 3
Total Semester Credit Hours 27

Program Specific Degree Requirements
(49 semester hours, must pass each course with a grade of “C” or higher.)

Code Title Semester Credit Hours
Core Courses
ACCT 321 Intermediate Accounting I 5
ACCT 322 Intermediate Accounting II 4
ACCT 331 Cost Accounting 3
ACCT 360 Professional Preparation I 1
ACCT 392 Accounting Information Systems 3
ACCT 401 Governmental Accounting 3
BUGB 349 Legal Environment of Business 3
or BUGB 351 Business Law I 3
FINA 301 Managerial Finance 3
MARK 231 Principles of Marketing 3
Concentration Courses
Accounting
Select 9 semester hours of the following: 9
ACCT 350 Ethics for Accounting Professionals
ACCT 393 Cooperative Education
ACCT 396 Topics
ACCT 402 Advanced Accounting
ACCT 441 Individual Income Tax
ACCT 442 Advanced Tax and Tax Research
ACCT 470 Fraud and Forensic Accounting
ACCT 493 Cooperative Education
Business
MANG 491 Business Strategy 3
Select 9 additional hours from upper division courses with the prefix of BUGB, CISB, ECON, ENTR, FINA, HMGT, HRMA, MANG, or MARK 9
Total Semester Credit Hours 49

General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 7 semester hours

Code Title Semester Credit Hours
MATH 113 College Algebra-GTMA1 1
Select additional electives 6
Total Semester Credit Hours 7

Course Title Semester Credit Hours
First Year
Fall Semester
ENGL 111 English Composition-GTCO1 3
MATH 113 College Algebra-GTMA1 4
Essential Learning - Fine Arts 3
Essential Learning - Natural Science 3
Essential Learning - Social/Behavioral Science 3
Spring Semester
ENGL 112 English Composition-GTCO2 3
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essential Learning - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social/Behavioral Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>KINA Activity</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>3</strong></td>
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</tr>
</tbody>
</table>

### Second Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CISB 101</td>
<td>Business Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>CSI 241 or STAT 241</td>
<td>Introduction to Business Analysis or Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>14</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUG 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>CII 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>15</strong></td>
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</tbody>
</table>

### Third Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 321</td>
<td>Intermediate Accounting I</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 331</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUG 349</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
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<td></td>
</tr>
</tbody>
</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 322</td>
<td>Intermediate Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>Essential Learning - Natural Sciences with Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ACCT 360</td>
<td>Professional Preparation I</td>
<td>1</td>
</tr>
<tr>
<td>ACCT 392</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>Accounting Concentration Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
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<td></td>
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</tbody>
</table>

### Fourth Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 401</td>
<td>Governmental Accounting</td>
<td>3</td>
</tr>
<tr>
<td>FINA 301</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>Accounting Concentration Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Electives</td>
<td>6</td>
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</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
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<td></td>
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</tbody>
</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANG 491</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>Accounting Concentration Course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Business Concentration Course (3 courses)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**: **120**

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

### Public Accounting, Accounting (BS)

**Degree:** Bachelor of Science  
**Major:** Accounting  
**Concentration:** Public Accounting  
**Program Code:** 3108

### About This Major . . .

Accounting is one degree with 360 degrees of possibilities. Every business needs accounting expertise, whether it’s a Wall Street law firm, a professional sports team, movie production company, or a rock band. With the proper accounting education your employment options are endless. The Public Accounting concentration provides students with basic business skills as well as the accounting knowledge needed to pass the Certified Public Accounting CPA exam. Graduates of this program have a very high CPA exam pass rate and are heavily recruited by local and regional CPA firms. Most graduates will have job offers months before they graduate.

This program is designed to be the undergraduate component of the 3+2 accounting program which can earn the graduate a Bachelor of Science in Accounting and a Master of Business Administration (MBA) in five years. In order to meet Colorado CPA licensing requirements (150 hours), students will need to complete the 3+2 program. The Public Accounting concentration is the required pathway for the 3+2 program and, in conjunction with the 3+2 program, will provide the curriculum needed for CPA licensure.

For more information on what you can do with this major, go to [http://www.coloradomesa.edu/career/whatmajor.html](http://www.coloradomesa.edu/career/whatmajor.html).
All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Integrate knowledge from multiple functional areas of business to solve business problems and to develop sound business strategies. (Specialized Knowledge)
2. Apply business knowledge and skills in appropriate business contexts and transfer knowledge and skills to new business situations. (Critical Thinking)
3. Communicate clearly, appropriately, and persuasively to the business audience, both orally and in writing, including individual presentations. (Communication Fluency)
4. Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
5. Effectively work as a team. (Applied Learning)
7. Produce professional business work products. (Applied Learning)
8. Practice principle-based ethics in decision making both personally and professionally. (Applied Learning)
9. Prepare and interpret financial information. (Specialized Knowledge)

### Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

### Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTM1</td>
<td>3</td>
</tr>
</tbody>
</table>

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

1. Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2. This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3. 7 semester hours, one course must include a lab.
Foundation Courses

27 semester hours. These courses, plus Essential Learning English & Math requirements, must be completed within the student’s first 60 hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CISB 101</td>
<td>Business Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CISB 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CISB 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 27

Program Specific Degree Requirements

(52 semester hours, must pass each course with a grade of “C” or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 321</td>
<td>Intermediate Accounting I</td>
<td>5</td>
</tr>
<tr>
<td>ACCT 322</td>
<td>Intermediate Accounting II</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 331</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 360</td>
<td>Professional Preparation I</td>
<td>1</td>
</tr>
<tr>
<td>ACCT 392</td>
<td>Accounting Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 401</td>
<td>Governmental Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 349</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>or BUGB 351</td>
<td>Business Law I</td>
<td>3</td>
</tr>
<tr>
<td>FINA 301</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
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</table>

Concentration Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 350</td>
<td>Ethics for Accounting Professionals</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 402</td>
<td>Advanced Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 411</td>
<td>Auditing I</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 412</td>
<td>Auditing II</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 441</td>
<td>Individual Income Tax</td>
<td>4</td>
</tr>
<tr>
<td>ACCT 442</td>
<td>Advanced Tax and Tax Research</td>
<td>5</td>
</tr>
<tr>
<td>BUGB 352</td>
<td>Business Law II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 52

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 4 semester hour
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Accounting (Minor)

Minor: Accounting
Program Code: M135

About This Minor... 

Accounting is the one degree with 360 degrees of possibilities. Every business needs accounting help, whether it’s a Wall Street law firm, a professional sports team, a movie production company, or a rock band.

With the proper accounting education, your employment options are endless.

Accounting is the language of business and regardless of your major, the more accounting you have the better prepared you will be for a management position. This is a rigorous minor that will stand out on a résumé.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(24 semester hours for the Minor in Accounting)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 321</td>
<td>Intermediate Accounting I</td>
<td>5</td>
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<td>ACCT 322</td>
<td>Intermediate Accounting II</td>
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<tr>
<td>ACCT 331</td>
<td>Cost Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CISB 101</td>
<td>Business Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>ACCT Elective at the 300 or 400 level</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 24

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.
DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
ADDITION STUDIES

Program Description
This certificate program will provide students the knowledge and skills that are in high demand in all aspects of the behavioral health field. Students receiving this certificate will be provided with the latest evidence-based practices, research studies and best practices in the field of addictions. This certificate is offered to meet educational requirements that are needed for the Certified Addiction Counselor (CAC) II training as outlined by the Colorado Department of Human Services (CDHS), Office of Behavioral Health (OBH). These courses seek to enhance the student's counseling abilities, knowledge and competencies in becoming an addictions professional. By completing the educational requirements of this certificate, students are eligible to take the National Association for Addictions Professionals (NAADAC) NCAC I or NCAC II exam for CAC II certification as required in Colorado. All required classes seek to enhance the student's ability to offer addiction treatment services in a manner that respects gender, race and ethnicity, sexual orientation, cultural, familial, systemic and socioeconomic diversity.

Contact Information
Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Certificates
• Addiction Studies (Professional Certificate) (p. 140)

Addiction Studies (Professional Certificate)
Award: Addiction Studies
Program of Study: Addiction Studies
Program Code: 1711

About This Major...
The Addictions Studies certificate program is designed for students who desire a career within the addictions profession and health care industry. Addiction students who receive their certificate can either be self-employed or work with mental health organizations or practices throughout the state. Student who receive this certificate will have completed the educational requirements and learning objectives that are needed for becoming a Certified Addiction Counselor Level Two (CAC II) as outlined by the Colorado Department of Human Services (CDHS) and the Office of Behavioral Health (OBH). Students who complete the educational requirements and learning objectives of this certification program are eligible to take the Association for Addiction Professionals (NAADAC) National Certified Addiction Counselor (NCAC I) or (NCAC II) exam and apply to Department of Regulatory Agency (DORA) for CAC II certification as required in Colorado.

Institutional Requirements
The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.
• Primarily 300-400 level courses.
• At least fifty percent of the credit hours must be taken at CMU.
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Requirements
(16 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADAP 301</td>
<td>Foundations of Addictions Counseling</td>
<td>1</td>
</tr>
<tr>
<td>ADAP 350</td>
<td>Cultural and Ethical Issues in Addictions Treatment</td>
<td>1</td>
</tr>
<tr>
<td>ADAP 380</td>
<td>Pharmacology and Addictions</td>
<td>1</td>
</tr>
<tr>
<td>ADAP 401</td>
<td>Special Populations and Addictions</td>
<td>1</td>
</tr>
<tr>
<td>ADAP 420</td>
<td>Addiction Counseling Approaches</td>
<td>1</td>
</tr>
<tr>
<td>ADAP 450</td>
<td>Addictions Assessment and Group Counseling</td>
<td>1</td>
</tr>
<tr>
<td>ADAP 499</td>
<td>Internship (1-3 credit hours each enrollment for a total of 10 credit hours)</td>
<td>10</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 16

Fall Semester Cohort

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADAP 499</td>
<td>Internship</td>
<td>2</td>
</tr>
<tr>
<td>ADAP 301</td>
<td>Foundations of Addictions Counseling</td>
<td>1</td>
</tr>
<tr>
<td>ADAP 401</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>ADAP 380</td>
<td>Pharmacology and Addictions</td>
<td>1</td>
</tr>
<tr>
<td>ADAP 499</td>
<td>Internship</td>
<td>4</td>
</tr>
<tr>
<td>ADAP 401</td>
<td>Special Populations and Addictions</td>
<td>1</td>
</tr>
</tbody>
</table>
### Spring Semester Second Mod

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADAP 420</td>
<td>Addiction Counseling Approaches</td>
<td>1</td>
</tr>
</tbody>
</table>

### Summer Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADAP 450</td>
<td>Addictions Assessment and Group Counseling (First session of summer)</td>
<td>1</td>
</tr>
<tr>
<td>ADAP 499</td>
<td>Internship (First session of summer)</td>
<td>1</td>
</tr>
<tr>
<td>ADAP 499</td>
<td>Internship (Second session of summer)</td>
<td>1</td>
</tr>
</tbody>
</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Semester</td>
<td>Internship</td>
<td>1</td>
</tr>
</tbody>
</table>

### Fall Semester First Mod

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADAP 499</td>
<td>Internship</td>
<td>2</td>
</tr>
</tbody>
</table>

### Spring Semester J-Term

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADAP 499</td>
<td>Internship</td>
<td>1</td>
</tr>
</tbody>
</table>

### Total Semester Credit Hours

Total Semester Credit Hours: 16

---

### Spring Semester Cohort

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td>Internship</td>
<td>2</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>Foundations of Addictions Counseling</td>
<td>1</td>
</tr>
<tr>
<td>Spring Semester First Mod</td>
<td>Cultural and Ethical Issues in Addictions Treatment</td>
<td>1</td>
</tr>
<tr>
<td>Spring Semester Second Mod</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>Summer Semester</td>
<td>Internship</td>
<td>2</td>
</tr>
<tr>
<td>Fall Semester</td>
<td>Special Populations and Addictions</td>
<td>1</td>
</tr>
<tr>
<td>Fall Semester First Mod</td>
<td>Addiction Counseling Approaches</td>
<td>1</td>
</tr>
<tr>
<td>Fall Semester Second Mod</td>
<td>Internship</td>
<td>1</td>
</tr>
<tr>
<td>Spring Semester J-Term</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>Summer Semester</td>
<td>Internship</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 16

---

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

---

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.
AGRICULTURE SCIENCE

Program Description
The Agriculture Science curriculum is designed to provide students the fundamentals of agriculture and related business practices. With this degree, students will be well positioned to transfer into a bachelor’s degree program in agriculture. Graduates are qualified for employment in a variety of positions associated with sustainable agriculture, including horticultural and livestock operations, wholesale and retail management, nursery operations, and environmental and agricultural education.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670.

Associates
- Agriculture Science (AS) (p. 142)

Agriculture Science (AS)
Degree: Associate of Science
Major: Agricultural Science
Program Code: 2341

About This Major . . .
The Agriculture Science curriculum is designed to provide students the fundamentals of agriculture and related business practices. With this degree, students will be well positioned to transfer into a bachelor degree program in agriculture. Graduates are qualified for employment in a variety of positions associated with sustainable agriculture, including horticultural and livestock operations, wholesale and retail management, nursery operations, and environmental and agricultural education.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written, and electronic forms that are needed for entry level employment (communication fluency).
2. Apply Mathematical and applied physics concepts for industry to meet employment requirements (quantitative fluency).
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences, and technical careers (specialized knowledge).
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of associated technical skills (critical thinking).
5. Perform the necessary applied skill sets to fulfill the needs of entry level employment (applied learning).
6. Demonstrate ethical, civic, and work place responsibility as part of professional behavior (specialized knowledge).

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU or WCCC Associate of Science (AS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours total.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade of "C" or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado’s guaranteed transfer program.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 15 semester credit hours for an associate of science degree. A maximum of 6 of the 15 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

History
Select one History course

Humanities
Select one Humanities course

Social and Behavioral Sciences
Select one Social and Behavioral Sciences course
Select one Social and Behavioral Sciences course
**Fine Arts**
Select one Fine Arts course 3

**Natural Sciences**
Select one Natural Sciences course 3
Select one Natural Sciences course with a lab 4
Total Semester Credit Hours 31

1 Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one Activity course 1
Total Semester Credit Hours 2

**Program Specific Degree Requirements**
(24 semester hours, must earn a "C" or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 100</td>
<td>Practical Crop Production</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 100L</td>
<td>Practical Crop Production Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AGRS 102</td>
<td>Agriculture Economics</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 105</td>
<td>Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 205</td>
<td>Farm and Ranch Management</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 240</td>
<td>Introduction to Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 240L</td>
<td>Introduction to Soil Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td><strong>Restricted Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select at least 7 semester hours from the following list 1</td>
<td>7</td>
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</table>

**Animal Science Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 225</td>
<td>Feeds and Feeding</td>
<td></td>
</tr>
<tr>
<td>AGRS 230</td>
<td>Farm Animal Anatomy and Physiology</td>
<td></td>
</tr>
<tr>
<td>AGRS 250</td>
<td>Live Animal and Carcass Evaluation</td>
<td></td>
</tr>
<tr>
<td>AGRS 250L</td>
<td>Live Animal and Carcass Evaluation Laboratory</td>
<td></td>
</tr>
<tr>
<td>AGRS 288</td>
<td>Livestock Practicum</td>
<td></td>
</tr>
<tr>
<td>AGRS 296</td>
<td>Topics:</td>
<td></td>
</tr>
</tbody>
</table>

**Soil and Crop Science Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td></td>
</tr>
<tr>
<td>AGRS 103</td>
<td>Introduction to Entomology</td>
<td></td>
</tr>
<tr>
<td>AGRS 103L</td>
<td>Introduction to Entomology Laboratory</td>
<td></td>
</tr>
<tr>
<td>AGRS 110</td>
<td>Integrated Pest Management</td>
<td></td>
</tr>
<tr>
<td>AGRS 210</td>
<td>Agricultural Marketing</td>
<td></td>
</tr>
<tr>
<td>AGRS 260</td>
<td>Plant Propagation</td>
<td></td>
</tr>
<tr>
<td>AGRS 296</td>
<td>Topics:</td>
<td></td>
</tr>
<tr>
<td>PHYS 100</td>
<td>Concepts of Physics-GTSC2</td>
<td></td>
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</table>

**Agriculture Business Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 208</td>
<td>Agricultural Finance</td>
<td></td>
</tr>
<tr>
<td>AGRS 210</td>
<td>Agricultural Marketing</td>
<td></td>
</tr>
<tr>
<td>CISB 101</td>
<td>Business Information Technology</td>
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</tr>
</tbody>
</table>

**Agriculture Education Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 210</td>
<td>Agricultural Marketing</td>
<td></td>
</tr>
<tr>
<td>AGRS 225</td>
<td>Feeds and Feeding</td>
<td></td>
</tr>
<tr>
<td>AGRS 118</td>
<td>Farm Structures and Green Houses</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 24

1 See advisor for recommended tracks.

**General Electives**
(3 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>Select electives</td>
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Total Semester Credit Hours 3

**Course**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
</table>

**First Year**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 100 &amp; 100L</td>
<td>Practical Crop Production and Practical Crop Production Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>AGRS 105</td>
<td>Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Natural Science with lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 102</td>
<td>Agriculture Economics</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 240 &amp; 240L</td>
<td>Introduction to Soil Science and Introduction to Soil Science Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 205</td>
<td>Farm and Ranch Management</td>
<td>3</td>
</tr>
<tr>
<td>KINA Activity</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Restricted Elective</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
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</table>

Total Semester Credit Hours 14

Total Semester Credit Hours 60
Students that intend to continue with Colorado Mesa University should take ESSL 290 - Maverick Milestone and ESSL 200 - Essential Speech during the final semester of their Associate of Science work.

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
ANIMATION, FILM, PHOTOGRAPHY, AND MOTION DESIGN

Program Description
The Bachelor of Fine Arts degree in Animation, Film, Photography, and Motion Design (AFP&MD) focuses on the study of time, motion and light. Coursework concentrates on traditional and digital 2D and 3D narrative animation; digital filmmaking; sound production; creation of motion visuals for gaming, entertainment, music videos, advertising; and storytelling. Storytelling within these areas takes a student’s vision and turns it into visual communication that can be produced and distributed via film, television, mobile devices, and the Web. Graduates are prepared to become animators, filmmakers, motion designers, storyboard artists, character designers, modelers, visual effects artists, concept artists, script writers, producers, editors, and cinematographers.

Contact Information
Department of Art and Design
Fine Arts Building 200
970.248.1833

Bachelors/Minors
- Animation, Film, Photography and Motion Design (BFA) (p. 145)

Animation, Film, Photography and Motion Design (BFA)
Degree: Bachelor of Fine Arts
Major: Animation, Film, Photography, and Motion Design
Program Code: 3284

About This Major . . .
The B.F.A. in Animation, Film, Photography and Motion Design (AFP&MD) is unique. After completing traditional freshman-level composition and drawing courses, AFP&MD majors enter a three-tiered program of study. The first tier consists of courses in the principles of animation, film, photography, and motion design—courses designed to outline the specifics of each area and the relationships connecting the areas to each other. The second tier follows with intermediate-level courses where students apply and expand upon earlier basic concepts while exploring more complex applications and completing projects that address the interaction of time, movement, and space. Finally, the third tier offers advanced levels of study providing opportunities for majors to produce a more individual and high-quality portfolio coupled with options for experimentation, collaborative work, and travel. Also unique to AFP&MD are the possible experimental combinations of multiple areas of study in animation, film, photography and motion design. Students at the senior level have opportunities to integrate all four AFP&MD areas or focus on various combinations of digital techniques. Students are encouraged to follow their passions and interests and focus on the area or areas most suited to their individual career goals.

For more information on what you can do with this major go to: http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Interpret and apply formal elements and principles of design. (Specialized Knowledge)
2. Demonstrate application of tools, materials, techniques, and proper use and care for equipment through quality craftsmanship. (Applied Learning)
3. Generate individual response through concept and theory beyond formal elements to create personal content. (Communication Fluency)
4. Communicate clearly regarding the critical analysis of art and design both historical and contemporary. (Critical thinking/ Communication Fluency)
5. Design and publish a professional portfolio and demo reel that meet current industry standards. (Applied Learning)
6. Demonstrate technical, aesthetic, and conceptual decisions based on application of the creative design process for photographic and time-based media. (Specialized Knowledge)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/ certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

### Code  Title  Semester Credit Hours

**English**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
</tbody>
</table>

**Mathematics**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

**History**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one History course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Humanities**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one Humanities course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Social and Behavioral Sciences**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Fine Arts**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one Fine Arts course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Natural Sciences**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one Natural Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Natural Sciences course with a lab</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**

31

1. Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.
2. One course must include a lab.

### Program Specific Degree Requirements

(51 semester hours, must pass each course with a grade of "B" or higher)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTE 118</td>
<td>History of Art, Prehistory to Renaissance-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 119</td>
<td>History of Art, Renaissance to Present-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 151</td>
<td>Foundation Drawing I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**

15

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

**Essential Learning Capstone**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**

6

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Foundation Courses

(15 semester hours, must pass each course with a grade of "B" or higher)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTE 101</td>
<td>Two-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 102</td>
<td>Three-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
</tbody>
</table>

**Art History Course**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 331</td>
<td>History of the Moving Image</td>
<td>3</td>
</tr>
</tbody>
</table>

**Animation, Film, Photography & Motion Design Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTA 123</td>
<td>Lights! Camera! Action</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 222</td>
<td>Principles of Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 223</td>
<td>Image and Motion</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 224</td>
<td>Principles of Film and Motion Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 225</td>
<td>Principles of Animation</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 322</td>
<td>Intermediate Photography</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 323</td>
<td>Character Design and Story Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 324</td>
<td>Two-Dimensional Animation and Motion Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 325</td>
<td>3D Digital Modeling</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 326</td>
<td>Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 327</td>
<td>Sound Principles and Production</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 422</td>
<td>Advanced Photography and Studio Lighting</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 424</td>
<td>Animation, Film, Photography and Motion Design Studio I</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 425</td>
<td>Animation, Film, Photography and Motion Design Studio II</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 426</td>
<td>Advanced Motion Studio</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 427</td>
<td>Portfolio and Demo Reel</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**

51

### General Electives

(All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 17 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select electives</td>
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</table>

**Total Semester Credit Hours**

17

### Course  Title  Semester Credit Hours

#### First Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 118</td>
<td>History of Art, Prehistory to Renaissance-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 101 or ARTA 123</td>
<td>Two-Dimensional Design-GTAH1 or Lights! Camera! Action</td>
<td>3</td>
</tr>
</tbody>
</table>
Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 101</td>
<td>Two-Dimensional Design-GTAH1 or Lights! Cameral Action</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 102</td>
<td>Three-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 119</td>
<td>History of Art, Renaissance to Present-GTAH1</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester Credit Hours: 15

Second Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 151</td>
<td>Foundation Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 223</td>
<td>Principles of Animation</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>KINA Activity</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - Natural Science with lab</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

Semester Credit Hours: 15

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTA 222</td>
<td>Principles of Digital Photography</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 224</td>
<td>Principles of Film and Motion Design</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Natural Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Semester Credit Hours: 16

Third Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 331</td>
<td>History of the Moving Image</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 323</td>
<td>Character Design and Story Concepts</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 324</td>
<td>Two-Dimensional Animation and Motion Design</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 322</td>
<td>Intermediate Photography</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Semester Credit Hours: 15

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTA 325</td>
<td>3D Digital Modeling</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 326</td>
<td>Digital Filmmaking</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 327</td>
<td>Sound Principles and Production</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Semester Credit Hours: 15

Fourth Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTA 424</td>
<td>Animation, Film, Photography and Motion Design Studio I</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 426</td>
<td>Advanced Motion Studio</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 422</td>
<td>Advanced Photography and Studio Lighting</td>
<td>3</td>
</tr>
<tr>
<td>General Electives (2 courses)</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Semester Credit Hours: 15

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTA 425</td>
<td>Animation, Film, Photography and Motion Design Studio II</td>
<td>3</td>
</tr>
<tr>
<td>ARTA 427</td>
<td>Portfolio and Demo Reel</td>
<td>3</td>
</tr>
<tr>
<td>General Electives (3 courses)</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

Semester Credit Hours: 14

Total Semester Credit Hours: 120

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
APPLIED ANTHROPOLOGY AND GEOGRAPHY

The applied anthropology and geography major combines rigorous academic preparation in anthropology and geography with hands-on skills in GIS, archaeology and forensic anthropology. Upon graduation all students will have knowledge of cartography and GIS as well as physical anthropology and archaeology. GIS is an applied skill that will give the students in the anthropological sub-disciplines a niche to set them apart from other anthropology undergraduates.

Contact Information
Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Bachelors/Minors
- Applied Anthropology and Geography (BA) (p. 148)

Applied Anthropology and Geography (BA)

Degree: Bachelor of Arts
Major: Applied Anthropology and Geography
Program Code: 3780

About This Major...
The digital humanities and social sciences, an interdisciplinary field that combines technology skills with social science knowledge, is a growing, innovative collaboration of disciplines making its impact nation-wide. Upon graduation, all students will have knowledge of cartography and GIS, as well as physical anthropology and archaeology. GIS is an applied skill that will give the students in the anthropological sub-disciplines a niche to set them apart from other anthropology undergraduates. The anthropological disciplines provide students, who focus on GIS, a subject matter with which to hone their GIS skills.

BA-seeking students in this program will learn to think critically and ask theoretically-grounded questions about human lives in the immediate area, the surrounding region, and ultimately, across the western USA, in a program that seamlessly blends the acquisition of academic and professional skills. Furthermore, practical training in archaeological, geographical and forensic anthropological field research allows students to take full advantage of the applied employment opportunities available across the western slope and Colorado Plateau as part of energy extraction, law enforcement and/or civil engineering (for example).

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

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(31 semester hours)
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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 31

1 Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.
# Other Lower Division Requirements

(7 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Wellness Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td>KINA 112</td>
<td>Hiking</td>
<td>1</td>
</tr>
<tr>
<td>or KINA 120</td>
<td>Backpacking</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Essential Learning Capstone</strong></td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>7</td>
</tr>
</tbody>
</table>

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements and when a student has earned between 45 and 75 hours.

# Foundation Courses

(6 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Two consecutive courses in the same foreign language</strong></td>
<td>6</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>6</td>
</tr>
</tbody>
</table>

1. FLAS 114 & FLAS 115 will not fulfill this requirement.

# Program Specific Degree Requirements

(58 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 202</td>
<td>Introduction to Anthropology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>ARKE 205</td>
<td>Principles of Archaeology - GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>ARKE 225</td>
<td>Introduction to North American Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARKE 410 &amp; 410L</td>
<td>Field Methods in Archaeology and Field Methods in Archaeology Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>FOAN 180 &amp; 180L</td>
<td>Survey of Physical Anthropology-GTSS3 and Survey of Physical Anthropology-Laboratory-GTSS3</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 102</td>
<td>Human Geography-GTSS2</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 131</td>
<td>Introduction to Cartography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 341 &amp; 341L</td>
<td>GIS for Social Scientists and GIS for Social Scientists Lab</td>
<td>3</td>
</tr>
<tr>
<td>GIST 332 &amp; 332L</td>
<td>Introduction to Geographic Information Systems and Introduction to Geographic Information Systems Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td>4</td>
</tr>
</tbody>
</table>

**Major Core Courses**

- ANTH 202, Introduction to Anthropology-GTSS3
- ARKE 205, Principles of Archaeology - GTSS3
- ARKE 225, Introduction to North American Archaeology
- ARKE 410 & 410L, Field Methods in Archaeology and Field Methods in Archaeology Laboratory
- FOAN 180 & 180L, Survey of Physical Anthropology-GTSS3 and Survey of Physical Anthropology-Laboratory-GTSS3
- GEOG 102, Human Geography-GTSS2
- GEOG 131, Introduction to Cartography
- GEOG 341 & 341L, GIS for Social Scientists and GIS for Social Scientists Lab
- GIST 332 & 332L, Introduction to Geographic Information Systems and Introduction to Geographic Information Systems Laboratory
- STAT 215, Statistics for Social and Behavioral Sciences

**Applied Anthropology and Geography Electives**

Select 18 semester hours from the following: 18

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARKE 300</td>
<td>Human Evolution</td>
</tr>
<tr>
<td>ARKE 301</td>
<td>The Emergence of Human Culture</td>
</tr>
<tr>
<td>ARKE 302</td>
<td>From Domestication to States</td>
</tr>
<tr>
<td>ARKE 320</td>
<td>Colorado Archaeology</td>
</tr>
<tr>
<td>ARKE 350</td>
<td>Southwest Archaeology</td>
</tr>
<tr>
<td>ARKE 352</td>
<td>Paleoindian Archaeology</td>
</tr>
<tr>
<td>ARKE 402</td>
<td>Cultural Resource Management</td>
</tr>
<tr>
<td>ARKE 466</td>
<td>Field Research in Archeology</td>
</tr>
<tr>
<td>ARKE 467 &amp; 467L</td>
<td>Archaeology Lab Methods and Archaeology Laboratory</td>
</tr>
<tr>
<td>ARKE 499</td>
<td>Internship</td>
</tr>
<tr>
<td>FOAN 232 &amp; 232L</td>
<td>Survey of Forensic Science and Survey of Forensic Science Laboratory</td>
</tr>
<tr>
<td>FOAN 280 &amp; 280L</td>
<td>Crime Scene Processing and Crime Scene Processing Laboratory</td>
</tr>
<tr>
<td>FOAN 350</td>
<td>Forensic Anthropology</td>
</tr>
<tr>
<td>FOAN 480</td>
<td>Professional Issues in Forensic Science</td>
</tr>
<tr>
<td>FOAN 499</td>
<td>Internship</td>
</tr>
<tr>
<td>GEOG 103</td>
<td>World Regional Geography-GTSS2</td>
</tr>
<tr>
<td>GEOG 399</td>
<td>Internship</td>
</tr>
<tr>
<td>GEOG 399</td>
<td>Internship</td>
</tr>
</tbody>
</table>

**Restricted Electives**

Select 6 semester hours from the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 105 &amp; 105L</td>
<td>Attributes of Living Systems-GTSC1 and Attributes of Living Systems Laboratory-GTSC1</td>
</tr>
<tr>
<td>BIOL 209 &amp; 209L</td>
<td>Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory</td>
</tr>
<tr>
<td>BIOL 210 &amp; 210L</td>
<td>Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory</td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
</tr>
<tr>
<td>BIOL 403</td>
<td>Evolution</td>
</tr>
<tr>
<td>BIOL 410 &amp; 410L</td>
<td>Human Osteology and Human Osteology Laboratory</td>
</tr>
<tr>
<td>GEOL 100</td>
<td>Survey of Earth Science-GTSC2</td>
</tr>
<tr>
<td>GEOL 402 &amp; 402L</td>
<td>Applications of Geomorphology and Applications of Geomorphology Laboratory</td>
</tr>
<tr>
<td>GIST 321 &amp; 321L</td>
<td>Introduction to Remote Sensing and Introduction to Remote Sensing Laboratory</td>
</tr>
<tr>
<td>GIST 375 &amp; 375L</td>
<td>Global Positioning Systems for GIS and Global Positioning Systems for GIS Laboratory</td>
</tr>
<tr>
<td>HIST 409</td>
<td>Material Culture Studies</td>
</tr>
<tr>
<td>HIST 435</td>
<td>Classical Archaeology</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours** 58

1. ARKE 466 requires students to be in the field or lab for a minimum of 6 hours per day for 7 weeks.
2. Students taking ARKE 466 are required to take ARKE 467 and ARKE 467L during the subsequent fall semester.

# General Electives

(All college level courses appearing on your final transcript not listed above that will bring your total semester hours to 120 hours. Could be up to 18 semester hours.)
### Applied Anthropology and Geography (BA)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>18</td>
</tr>
<tr>
<td></td>
<td><strong>Course</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Title</strong></td>
<td><strong>Credit</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
<td><strong>Hours</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ANTH 202 or GEOG 102</td>
<td>Introduction to Anthropology-GTSS3</td>
</tr>
<tr>
<td></td>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FOAN 180 &amp; 180L</td>
<td>Survey of Physical Anthropology-GTSS3 and Survey of Physical Anthropology Laboratory-GTSS3</td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEOG 131</td>
<td>Introduction to Cartography</td>
</tr>
<tr>
<td></td>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 or higher</td>
</tr>
<tr>
<td></td>
<td>Second Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ANTH 202 or GEOG 102</td>
<td>Introduction to Anthropology-GTSS3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Sciences with lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ARKE 205</td>
<td>Principles of Archaeology - GTSS3</td>
</tr>
<tr>
<td></td>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
</tr>
<tr>
<td></td>
<td>ESSL 200</td>
<td>Essential Speech</td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KINE 110</td>
<td>Health and Wellness</td>
</tr>
<tr>
<td></td>
<td>STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
</tr>
<tr>
<td></td>
<td>Third Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Applied Anthropology and Geography Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARKE 225</td>
<td>Introduction to North American Archaeology</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GIST 332 &amp; 332L</td>
<td>Introduction to Geographic Information Systems and Introduction to Geographic Information Systems Laboratory</td>
</tr>
<tr>
<td></td>
<td>Restricted Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Applied Anthropology and Geography Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARKE 410 &amp; 410L</td>
<td>Field Methods in Archaeology and Field Methods in Archaeology Laboratory</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEOG 341 &amp; 241L</td>
<td>GIS for Social Scientists and GIS for Social Scientists Lab</td>
</tr>
<tr>
<td></td>
<td>KINA 112/120</td>
<td>Hiking</td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
APPLIED BUSINESS

Program Description
This program prepares students for an exciting career in the field of business. An associate's degree gives students an opportunity to lead a team, start a business, and develop skills to improve an existing business.

The Applied Business program at Western Colorado Community College features:

• Technical, interpersonal and soft skill courses that prepare students to enter the workforce.
• Course content that is relevant to today's business needs. Training is focused on current business needs, diverse learning styles, hands-on classroom experience and practical program-related work.
• Small class sizes ensure students receive the level of instruction needed to excel in today's business world.
• Traditional classroom instruction and classes offered at night or online.
• Flexible curriculum that includes several one-semester Technical Certificates.
• An agreement with Colorado Mesa University's Department of Business enabling students who complete a two-year degree to seamlessly move to CMU to earn a Bachelor of Applied Science in Business Administration.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
• Administrative Support, Applied Business (AAS) (p. 151)
• Frontline Supervision, Applied Business (AAS) (p. 153)
• Marketing Communications, Applied Business (AAS) (p. 155)

Certificates
• Administrative Support, Applied Business (Technical Certificate) (p. 157)
• Business Foundations, Applied Business (Technical Certificate) (p. 158)
• Frontline Supervision, Applied Business (Technical Certificate) (p. 159)
• Office Technology, Applied Business (Technical Certificate) (p. 162)

Administrative Support, Applied Business (AAS)
Degree: Associate of Applied Science
Major: Applied Business

About This Major . . .
This program prepares students to be effective, efficient professionals. Students develop skills in budget analysis, office technology, grammar, oral presentations, information systems, current software programs, human relations and communications. The administrative support curriculum prepares the student to be an effective staff member in business, government or non-profit organizations.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate the ability to create professional business documents per industry standards. (Communication Fluency)
2. Interpret Professional financial documents, per industry standards. (Quantitative Fluency)
3. Identify and demonstrate excellent internal and external customer service. (Applied Learning)
4. Demonstrate the ability to use business software applications proficiently. (Critical Thinking)
5. Recognize and illustrate effective, efficient, entry level office professional behavior. (Applied Learning)
6. Identify and value the significance of trustworthiness, confidentiality, dependability, self-motivation, and attitude. (Specialized Knowledge)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 60 semester hours minimum.
• Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in
the catalog for a complete list of graduation requirements.

**Specific to this degree:**
• 63 semester hours total for the AAS in Applied Business,
Administrative Support emphasis.

### Essential Learning Requirements
(18 semester hours)

See the current catalog for a list of courses that fulfill the requirements
below. If a course is an Essential Learning option and a requirement for
your major, you must use it to fulfill the major requirement and make a
different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other Essential Learning Core Courses**

Select one Social and Behavioral Sciences, Natural Sciences, Fine
Arts or Humanities course

Select one Social and Behavioral Sciences, Natural Sciences, Fine
Arts or Humanities course

Total Semester Credit Hours

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

### Foundation Courses
(22 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUGB 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 102</td>
<td>Business Basics</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 106</td>
<td>Marketing Your Image</td>
<td>1</td>
</tr>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 156</td>
<td>Problem Solving in the Business Environment</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 257</td>
<td>Managing Office Technology I</td>
<td>3</td>
</tr>
<tr>
<td>TECI 142</td>
<td>Internet of Things</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

### Program Specific Degree Requirements
(21 semester hours, must complete with a grade of “C” or better.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 101</td>
<td>Budget Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 116</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 155</td>
<td>Social Media for Business</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 200</td>
<td>Business Rules and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 258</td>
<td>Managing Office Technology II</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 289</td>
<td>Applied Business Capstone</td>
<td>3</td>
</tr>
<tr>
<td>ABUS Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

### Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for
informational purposes to help determine what courses and associated
Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Frontline Supervision, Applied Business (AAS)

Degree: Associate of Applied Science
Major: Applied Business
Emphasis: Frontline Supervision
Program Code: 1301

About This Major . . .

This program prepares students to be effective, efficient, entry-level professionals. Students develop skills in supervision, the basics of human resources, and how to work with others in a business environment. The Frontline Supervision curriculum prepares the student to be an effective staff member in business, government or non-profit organizations. Students learn the importance of human behavior in organizations, how to supervise employees, and basic human resource practices.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Develop skills necessary to communicate properly with subordinates, supervisors and peers using both verbal and non-verbal techniques. (Communication Fluency)
2. Discuss the supervisor's function, place in the management team and role in the business environment. (Specialized Knowledge)
3. Explain the impact of human perception of relationships. (Critical Thinking)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this degree:

- 63 semester hours total for the AAS in Applied Business, Frontline Supervision emphasis.

Essential Learning Requirements

18 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.
## Communication

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

## Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 107</td>
<td>Career Math (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

## Other Essential Learning Core Courses

- Select one Social and Behavioral Sciences, Natural Sciences, Fine Arts or Humanities course (3 credits)
- Select one Social and Behavioral Sciences, Natural Sciences, Fine Arts or Humanities course (3 credits)

**Total Semester Credit Hours:** 18

## Other Lower Division Requirements

### Wellness Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

**Select one Activity course (1 credit)**

**Total Semester Credit Hours:** 2

## Foundation Courses

(22 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUGB 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 102</td>
<td>Business Basics</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 106</td>
<td>Marketing Your Image</td>
<td>1</td>
</tr>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 156</td>
<td>Problem Solving in the Business Environment</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 257</td>
<td>Managing Office Technology I</td>
<td>3</td>
</tr>
<tr>
<td>TECI 142</td>
<td>Internet of Things</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours:** 22

## Program Specific Degree Requirements

(21 semester hours, must complete each course with a grade of “C” or better.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 101</td>
<td>Budget Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 116</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 160</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 200</td>
<td>Business Rules and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ABUS Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

## First Year

### Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ABUS 160</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 257</td>
<td>Managing Office Technology I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester Credit Hours:** 16

### Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 116</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 200</td>
<td>Business Rules and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math</td>
<td>3</td>
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</table>

**Semester Credit Hours:** 15

## Second Year

### Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>KINA Activity</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>ABUS 101</td>
<td>Budget Analysis</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>ABUS Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Essential Learning - Social and Behavioral Sciences, Natural Sciences, Fine Arts or Humanities course (3 credits)**

**Total Semester Credit Hours:** 16

### Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 102</td>
<td>Business Basics</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 106</td>
<td>Marketing Your Image</td>
<td>1</td>
</tr>
<tr>
<td>TECI 142</td>
<td>Internet of Things</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 156</td>
<td>Problem Solving in the Business Environment</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 289</td>
<td>Applied Business Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

**Semester Credit Hours:** 16

**Total Semester Credit Hours:** 63

## Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic advisor.
department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Marketing Communications, Applied Business (AAS)**

Degree: Associate of Applied Science  
Major: Applied Business  
Emphasis: Marketing Communication  
Program Code: 1302

**About This Major . . .**

This program prepares students to be effective, efficient, entry-level marketing professionals. Students develop skills in customer service, digital design tools, human behavior in organizations, and social media. The Marketing Communications curriculum prepares the student to be an effective staff member in business, government or non-profit organizations. Students learn how to work with others, how to help others, how to use social media to the businesses advantage, and how to use entry level digital tools.

For more information on what you can do with this major, go to [http://www.coloradomesa.edu/wccc/programs.html](http://www.coloradomesa.edu/wccc/programs.html).

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate usage of design principles by applying them in their arrangement of graphic and text elements. (Applied Learning)
2. Choose from several page layout applications by being able to compare advantages and disadvantages of each. (Applied Learning)
3. Students will examine aspects of Web page design such as HTML, Web servers, Web graphics/sound/video, and programs that automate the design of Web sites and scripts (Specialized Knowledge)
4. Distinguish the role social media marketing plays in business. (Critical Thinking)
5. Evaluate the importance of strategizing use and implementation of social media. (Communication Fluency)
6. Explain the impact of human perception of relationships. (Communication Fluency)
7. Explain the importance of customer service. (Communication Fluency)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Specific to this degree:**

- 63 semester hours total for the AAS in Applied Business, Marketing Communication emphasis.

**Essential Learning Requirements**

(18 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Mathematics**

See the current catalog for a list of courses that fulfill the requirements below.
Other Essential Learning Core Courses
Select one Social and Behavioral Sciences, Natural Sciences, Fine Arts or Humanities course 3
Select one Social and Behavioral Sciences, Natural Sciences, Fine Arts or Humanities course 3
Total Semester Credit Hours 18

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
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</tbody>
</table>

Foundation Courses
(22 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUGB 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 102</td>
<td>Business Basics</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 106</td>
<td>Marketing Your Image</td>
<td>1</td>
</tr>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 156</td>
<td>Problem Solving in the Business Environment</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 257</td>
<td>Managing Office Technology I</td>
<td>3</td>
</tr>
<tr>
<td>TECI 142</td>
<td>Internet of Things</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>22</td>
</tr>
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</table>

Program Specific Degree Requirements
(21 semester hours)

<table>
<thead>
<tr>
<th>Core Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 114</td>
</tr>
<tr>
<td>ABUS 155</td>
</tr>
<tr>
<td>ABUS 160</td>
</tr>
<tr>
<td>ABUS 289</td>
</tr>
<tr>
<td>CSCI 106</td>
</tr>
<tr>
<td>MARK 231</td>
</tr>
<tr>
<td>ABUS 120</td>
</tr>
<tr>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>First Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
</tr>
<tr>
<td>ABUS 114</td>
</tr>
<tr>
<td>ABUS 120</td>
</tr>
<tr>
<td>KINE 100</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

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Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.

Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Administrative Support, Applied Business (Technical Certificate)

Degree: Technical Certificate
Program of Study: Applied Business
Specialization: Administrative Support
Program Code: 1100

About This Major . . .

This program prepares students to be effective, efficient, entry-level office professionals. Students develop skills in computer office programs, Basics of human resources, and human relations in organizations. The Administrative Support curriculum prepares the student to be an effective staff member in business, government or non-profit organizations.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Explain the impact of human perception of relationships
2. Explain the function of Human Resource Management.
3. Demonstrate the ability to apply various software applications to real life situations
4. Demonstrate the ability to create documentation and training materials for office technology

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.

Program Specific Certificate Requirements

(9 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 200</td>
<td>Business Rules and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 257</td>
<td>Managing Office Technology I</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Course Title Semester Credit Hours

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 200</td>
<td>Business Rules and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 257</td>
<td>Managing Office Technology I</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.
• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.


Degree: Technical Certificate
Program of Study: Applied Business
Specialization: Business Foundations
Program Code: 1104

About This Major . . .

This program prepares students to be effective, efficient, entry-level professionals. Students develop skills in business basics, marketing basics, and customer service. The Business Foundations curriculum prepares the student to be an effective staff member in business, government or non-profit organizations.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All WCCC/CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Explain the importance of customer service.
2. Demonstrate effective communication skill face-to-face, via telephone, email, etc.
3. Use and development of marketing strategy and examine the effects of buyer motivation
4. Examine the different parts of business

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.
• Consists of 100-200 level courses.
• At least fifty percent of the credit hours must be taken at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A grade lower than “C” will not be counted toward meeting the requirements.

• A course may only be used to fulfill one requirement for each degree/certificate.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(9 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUGB 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 160</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

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Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Frontline Supervision, Applied Business (Technical Certificate)

Degree: Technical Certificate
Program of Study: Applied Business
Specialization: Frontline Supervision
Program Code: 1101

About This Major . . .

This program prepares students to be effective, efficient, entry-level professionals. Students develop skills in supervision, the basics of human resources, and how to work with others in a business environment. The Frontline Supervision curriculum prepares the student to be an effective staff member in business, government or non-profit organizations. Students learn the importance of human behavior in organizations, how to supervise employees, and basic human resource practices.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU/WCCC certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Develop skills necessary to communicate properly with subordinates, supervisors and peers using both verbal and non-verbal techniques.
2. Discuss the supervisor’s function, place in the management team and role in the business environment.
3. Explain the impact of human perception of relationships
4. Explain the function of Human Resource Management.

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(18 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 200</td>
<td>Business Rules and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 116</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 160</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 18

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
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</tr>
<tr>
<td>ABUS 116</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
</tbody>
</table>

First Year

Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUGB 101</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 160</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 116</td>
<td>Principles of Supervision</td>
<td>3</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.


Degree: Technical Certificate
Program of Study: Applied Business
Specialization: Graphics Technology
Program Code: 1103

About This Major . . .

This program prepares students to be effective, efficient, entry-level professionals. Students develop skills in web page design, digital layouts, and digital tools. The Graphics Technology curriculum prepares the student to be an effective staff member in business, government or non-profit organizations.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(9 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 120</td>
<td>Digital Design Tools</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 106</td>
<td>Web Page Design I</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 114</td>
<td>Digital Layout</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>
Course               Title                        Semester Credit Hours
First Year
Fall Semester
ABUS 120             Digital Design Tools                   3
CSCI 106             Web Page Design I                        3
ABUS 114             Digital Layout                                3
Semester Credit Hours 9
Total Semester Credit Hours 9

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

About This Major . . .

This program prepares students to be effective, efficient, entry-level marketing professionals. Students develop skills in customer service, human behavior in organizations, and social media. The Marketing Graphics Technology curriculum prepares the student to be an effective staff member in business, government or non-profit organizations. Students learn how to work with others, how to help others, and how to use social media to the businesses advantage.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU/WCCC certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Distinguish the role social media marketing plays in business.
2. Evaluate the importance of strategizing use and implementation of social media.
3. Explain the impact of human perception of relationships
4. Explain the importance of customer service.

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.


Degree: Technical Certificate
Program of Study: Applied Business
Specialization: Marketing Graphics Technology
Program Code: 1102

Program Specific Certificate Requirements

(18 semester hours, must earn a grade of “C” or better in each course.)
### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.

### Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.

### About This Major . . .

This program prepares students to be effective, efficient, entry-level office professionals. Students develop skills in electronic office procedures, word processing, spreadsheets, data processing, current software programs, and social media. The Office Technology curriculum prepares the student to be effective support staff in business, government or non-profit organizations.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU/WCCC certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Distinguish the role social media marketing plays in business.
2. Preparing and formatting a worksheet
3. Describe databases and database management systems
4. Evaluate the importance of strategizing use and implementation of social media

### Office Technology, Applied Business (Technical Certificate)

Degree: Technical Certificate
Program of Study: Applied Business
Specialization: Office Technology
Program Code: 1105
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.

• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Program Specific Certificate Requirements
(18 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 155</td>
<td>Social Media for Business</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 156</td>
<td>Problem Solving in the Business Environment</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 200</td>
<td>Business Rules and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 257</td>
<td>Managing Office Technology I</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 258</td>
<td>Managing Office Technology II</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
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<td>18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 200</td>
<td>Business Rules and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 257</td>
<td>Managing Office Technology I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
<td>9</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABUS 155</td>
<td>Social Media for Business</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 156</td>
<td>Problem Solving in the Business Environment</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 258</td>
<td>Managing Office Technology II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
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<td>9</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.

• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.

• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.

• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
ARCHAEOLOGY

(Also see Cultural Resource Management (p. 308))

Program Description
The archaeology minor introduces students to the knowledge and skills necessary to carry out archaeological investigations. The curriculum focuses on the archaeology of North America and supplies hands-on training in field methods and cultural resource management. The minor especially complements such degree programs as history and geology. Students with the background supplied by the minor will be well prepared to enter the burgeoning local market in heritage management.

Contact Information
Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Bachelor/Minors
• Archaeology (Minor) (p. 164)

Archaeology (Minor)
Minor: Archaeology
Program Code: M725

About This Minor...
The Archaeology minor introduces students to the knowledge and skills necessary to carry out archaeological investigations and to treat what is recovered through such investigations appropriately. Courses taken as part of the minor will provide students with background knowledge of North American prehistory and in-depth studies of regional sequences within that prehistory. The Minor especially complements such degree programs as History and Geology. Students with the background in Archaeology and Cultural Resource Management that the Minor supplies will be well prepared to enter the burgeoning local market in these areas.

Institutional Minor Requirements
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

• A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
• Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
• At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
• At least 25 percent of the classes must be taken at CMU.
• 2.00 cumulative GPA or higher for the courses used for the minor.
• A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
• A minor must be outside the major field of study.
• A student may earn up to five minors with any baccalaureate degree at CMU.

• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements
(26 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANTH 202</td>
<td>Introduction to Anthropology-GTSS3</td>
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</tr>
<tr>
<td>ARKE 205</td>
<td>Principles of Archaeology - GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>ARKE 225</td>
<td>Introduction to North American Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARKE 410</td>
<td>Field Methods in Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARKE 410L</td>
<td>Field Methods in Archaeology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ARKE 466</td>
<td>Field Research in Archaeology</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Choose 6 semester hours from the list below, at least 3 of which have to be from the ARKE selections numbered 300 or higher</td>
<td>6</td>
</tr>
</tbody>
</table>

| ARKE 300 | Human Evolution                                          | 3                     |
| ARKE 301 | The Emergence of Human Culture                           | 3                     |
| ARKE 302 | From Domestication to States                             | 3                     |
| ARKE 320 | Colorado Archaeology                                     | 3                     |
| ARKE 325 | Geoarchaeology                                           | 3                     |
| ARKE 350 | Southwest Archaeology                                    | 3                     |
| ARKE 352 | Paleoindian Archaeology                                  | 3                     |
| ARKE 402 | Cultural Resource Management                             | 3                     |
| ARKE 467 | Archaeology Lab Methods & 467L and Archaeology Laboratory| 3                     |
| FOAN 180 | Survey of Physical Anthropology-GTSS3                    | 3                     |
| FOAN 180L | Survey of Physical Anthropology Laboratory-GTSS3              | 3                     |
| GIST 332 | Introduction to Geographic Information Systems           | 3                     |
| GIST 332L | Introduction to Geographic Information Systems Laboratory | 3                     |
| HIST 435 | Classical Archaeology                                    | 3                     |

Total Semester Credit Hours 26

1 Some courses require prerequisites not required for completion of this minor. Please review all prerequisites and work with your advisor to select courses.
2 It is advised that students take the course in fulfillment of the Essential Learning Laboratory Science requirement.

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards
Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
ART

Program Description

The Bachelor of Arts degree in Studio Art is designed for students interested in studio art that do not want to pursue graduate level studies. Numerous career paths for candidates who complete this degree would include owning and operating a gallery, art therapy (combined with a psychology minor/major), working as an artist exhibiting artwork or being involved with artist residencies. Students can customize their course selections to meet their individual needs and be well prepared to enter the field for jobs that require a studio art education. Students pursing a Bachelor of Arts in Art degree are not required to participate in a senior exhibition.

The Bachelor of Fine Arts (BFA) in Art with a concentration in art history combines strong curriculum requirements in both studio and art history courses. Students in this major develop advanced skills in particular studio techniques and engage in in-depth study of historic and contemporary artists, art movements and styles. This degree can lead to professional employment in art museums and galleries, art publishing houses and other areas of art services. The degree also prepares students for advanced, graduate-level art history studies.

The BFA in Art, concentrating in K-12 education, leads to licensure for Colorado K-12 art education. The visual art emphasis includes coursework in theory, art history and studio art. Art teaching methods courses in elementary and secondary art are an integral part of the degree plan. Students accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout western Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings. Please see the Teacher Education Admission Packet for further information on admissions criteria.

The BFA in Art with a concentration in studio art combines strong curriculum requirements in design, drawing, studio and art history. Students develop skills and aesthetic judgment in the materials, techniques and tools within drawing, painting, printmaking, ceramics or sculpture studio arts. Art history studies engage students in historic and contemporary artists, art movements and styles. The degree culminates in a required senior gallery exhibition, and upon graduation, students are prepared to pursue a career as an artisan or continue with graduate studies in art.

The BA in Art with a concentration in studio art combines the same strong curriculum requirements as the BFA degree. This degree helps students develop the same skills and aesthetic judgment in the materials, techniques and tools within drawing, painting, printmaking, ceramics or sculpture studio arts. Art History studies engage students in historic and contemporary artists, art movements and styles. This degree does not require a senior gallery exhibition and is perfect for students who want to learn to make art without the stress of exhibiting and upon graduation, students are prepared to pursue a career as an artisan.

The studio art minor acquaints students with some of the core elements in either two- or three-dimensional studio art media. Students develop skills, sensitivity and aesthetic judgment while pursuing individual interests within studio areas such as drawing, painting, printmaking, ceramics or sculpture. A background in the visual arts can provide a variety of opportunities in the areas of studio art, art gallery organizations and applied design.

Contact Information

Department of Art and Design
Fine Arts Building 200
970.248.1833

Bachelors/Minors

- Art History, Art (BFA) (p. 166)
- Education: K-12 Education, Art (BFA) (p. 169)
- Studio Art, Art (BA) (p. 175)
- Studio Art, Art (BFA) (p. 172)
- Studio Art, Art (Minor) (p. 177)

Art History, Art (BFA)

Degree: Bachelor of Fine Arts
Major: Art
Concentration: Art History
Program Code: 3275

About This Major . . .

The BFA degree in Art with a concentration in Art History combines strong curriculum requirements in both studio and art history courses. Students in this major will engage in the study of historic and contemporary artists, art movements and styles. In addition, they will develop skills in particular studio techniques to provide them with a basic understanding of artmaking. This unique combination will give them an understanding of the art/art history field. This degree can lead to professional employment in art museums and galleries, art publishing houses, and other areas of art services. The degree will also prepare students for advanced, graduate-level art history studies.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Interpret and apply formal elements and principles of design (Critical Thinking)
2. Demonstrate application of tools, materials, techniques, and proper use and care for equipment through quality craftsmanship (Applied Learning)
3. Generate individual response through concept and theory beyond formal elements to create personal content (Communication Fluency)
4. Communicate clearly regarding the critical analysis of art and design both historical and contemporary (Specialized Knowledge/Communication Fluency)
5. Demonstrate an array of critical approaches to the study of historic art and visual culture in written or oral presentations (Specialized Knowledge)
6. Execute research projects involving visual analysis, reading research, critical thinking, writing and standard methods of documentation (Critical Thinking)
Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 31

1. Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2. One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(15 semester hours, must maintain a cumulative 3.0 GPA, minimum grade of “C” is required in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTE 101</td>
<td>Two-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 102</td>
<td>Three-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 118</td>
<td>History of Art, Prehistory to Renaissance-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 119</td>
<td>History of Art, Renaissance to Present-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 151</td>
<td>Foundation Drawing I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 15

Program Specific Degree Requirements
(60 semester hours, must maintain a cumulative 3.0 GPA, minimum grade of “C” is required in each course.)

- No more than 6 semester hours of independent study courses can be used toward the degree.
- Additional fees are required throughout the art program for materials.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ARTH 220</td>
<td>History of Modern Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 152</td>
<td>Foundation Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 294</td>
<td>Sophomore Seminar</td>
<td>3</td>
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</table>

Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art Specialization</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Art History
21 semester hours of ARTH, 300- or 400-Level
ARTH 400 Criticism and Research: Theory and Method 3

Art Studio 200-Level
9 semester hours of ARTS or ARTT 200-Level courses 9

Art Studio 300-Level
9 semester hours of ARTS or ARTT 300-Level courses 9

Art Studio 400-Level
3 semester hours of ARTS or ARTT 400-Level courses 3

Foreign Language Requirement
Two consecutive classes in the same foreign language 1 6

Total Semester Credit Hours 60

1 FLAS 114 & FLAS 115 and FLSL 111 & FLSL 112 will NOT fulfill this requirement

General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 8 semester hours, 4 hours of upper division credit will be needed. Excludes KINA Activity courses. KINA Activity courses can NOT be used to fulfill general elective credit requirements. ARTE 499 is a possible elective.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
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<td></td>
<td>Select electives</td>
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<tr>
<td></td>
<td>Total Semester Credit Hours</td>
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</tr>
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</table>

Course Title Semester Credit Hours

First Year
Fall Semester
ENGL 111 English Composition-GTCO1 3
MATH 110 College Mathematics-GTMA1 (or higher) 3
ARTH 101 History of Art, Prehistory to Renaissance-GTAH1 3
ARTS 151 Foundation Drawing I 3

Spring Semester
ENGL 112 English Composition-GTCO2 3
Essential Learning - Humanities 3
Essential Learning - Social and Behavioral Sciences 3
ARTH 102 Three-Dimensional Design-GTAH1 3
ARTH 119 History of Art, Renaissance to Present-GTAH1 3

Semester Credit Hours 15

Second Year
Fall Semester
Foreign Language I 3
Essential Learning - Fine Arts 3
Essential Learning - Natural Science 3
ARTS 152 Foundation Drawing II 3
ARTH 220 History of Modern Art 3

Semester Credit Hours 15

Spring Semester
Foreign Language II 3
Essential Learning - Natural Science with Lab 4
KINE 100 Health and Wellness 1

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
Important information for this program:

www.coloradomesa.edu/career/whatmajor.html.

For more information on what you can do with this major, go to http://

Packet for further information on admissions criteria.

K-12 licensure program. Please see the Teacher Education Admission

candidate may apply for admission to the Center for Teacher Education

coursework must be completed with a minimum GPA of 2.80 before a

A minimum of 75 credit hours of Essential Learning and content area

coursework must be completed with a minimum GPA of 2.80 before a

candidate may apply for admission to the Center for Teacher Education
K-12 licensure program. Please see the Teacher Education Admission
Packet for further information on admissions criteria. EDUC 115 and

EDUC 215 must be taken before applying to the program.

For more information on what you can do with this major, go to http://

www.coloradomesa.edu/career/whatmajor.html.

Important information for this program:

• Submit the “Intent to Graduate” form to the Registrar’s Office to

officially declare the intended graduation date and commencement

ceremony plans.

• Register for all needed courses and complete all requirements for

each degree sought.

Submission deadlines and commencement details can be found at http://

www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his

responsibility to consult the Registrar’s Office regarding next steps.

Education: K-12 Education, Art (BFA)

Degree: Bachelor of Fine Arts

Major: Art

Concentration: K-12 Teaching

Program Code: 3277

About This Major . . .

The Bachelor of Fine Arts degree leads to licensure for Colorado K-12
Art Education. The visual art emphasis includes coursework in theory,

art history, and studio art. Art teaching methods courses in Elementary

and Secondary Art are an integral part of the degree plan. As a student,

you will gradually accumulate over 200 hours of classroom experience

before beginning student teaching. School districts throughout western

Colorado provide opportunities to gain experience with children of all

ages and backgrounds in a variety of school settings.

A minimum of 75 credit hours of Essential Learning and content area

coursework must be completed with a minimum GPA of 2.80 before a

candidate may apply for admission to the Center for Teacher Education
K-12 licensure program. Please see the Teacher Education Admission
Packet for further information on admissions criteria. EDUC 115 and

EDUC 215 must be taken before applying to the program.

For more information on what you can do with this major, go to http://

www.coloradomesa.edu/career/whatmajor.html.

Important information for this program:

• 2.8 cumulative GPA or higher in all CMU coursework.

• K-12 Art licensure candidates are expected to show proficiencies in

State of Colorado Performance-Based and Art Model Content

Standards. Formal evaluation of that knowledge is shown through a

professional proficiency portfolio, developed throughout licensure

coursework and reviewed by both Art Education and Teacher

Education faculty at the end of the student teaching internship.

• Candidates are expected to earn a minimum grade of “B” in all

licensure classes (EDUC prefix courses), which must be taken in

sequence prescribed by the Center for Teacher Education. The

licensure sequence is begun during the junior year (usually fall

semester), and requires four semesters for completion.

• Professional dispositions for teaching are measured throughout the

licensure sequence and include qualities such as ethical and

responsible behaviors, personal presentation, ability to work in

collegial capacities, ability to manage time, paperwork and resources,

and an aptitude for elevating the academic standing of the Art

Education field.

• Completion of admission to the K-12 Art Licensure program includes:

• All requirements and prerequisite courses are met for the Center

for Teacher Education’s application for admission (usually completed during the sophomore year).

• A meeting with Art Education faculty to discuss professional

goals and establish a timeline for completion of requirements.

• Must pass all studio and art history courses with a grade of “B” or

higher.

• Completion

of ARTE 101, ARTE 102, ARTE 118, ARTE 119, ARTS 110, ARTS 151, ARTS 152, ARTS 241 and ARTS 274 within

the first 60 hours.

• A professional disposition form completed

in ARTD 410 and ARTD 412.

• Additional fees are required through the licensure program and range

from $200-$300, covering basic proficiency tests, fingerprinting, and

content exam, in addition to the cost of textbooks and art materials.

• Students are required to participate in exit examinations or

other programs deemed necessary to comply with the college

accountability requirement.

All CMU baccalaureate graduates are expected to demonstrate

proficiency in critical thinking, communication fluency, quantitative

fluency, and specialized knowledge/applied learning. In addition to these

campus-wide student learning outcomes, graduates of this major will be

able to:

1. Interpret and apply formal elements and principles of design. (Critical

Thinking)

2. Demonstrate application of tools, materials, techniques, and proper

use and care for equipment through quality craftsmanship. (Applied

Learning)

3. Generate individual response through concept and theory beyond

formal elements to create personal content. (Communication

Fluency)

4. Communicate clearly regarding the critical analysis of art and

design both historical and contemporary. (Specialized Knowledge/

Communication Fluency)

5. Create and sustain a body of work through self-directed research,

experimentation, risk-taking, and reflective analysis. (Applied

Learning)

6. Justify critical analysis of artwork based on material, conceptual, and

critical analysis. (Critical Thinking)

7. Instruct K-12 students based on self-written learning plans to

address individual learning and developmental patterns. (Specialized

Knowledge)

8. Design a safe and supportive learning environment for elementary

and secondary education students. (Applied Learning)

9. Apply content knowledge while working with learners to access

information in real world settings assuring learner mastery of the

content. (Specialized Knowledge)

10. Integrate assessment, planning, and instructional strategies

in coordinated and engaging ways through multiple means of

communication. (Critical Thinking/ Communication Fluency)

11. Engage in meaningful and intensive professional learning and self-

renewal by regularly examining practice through ongoing study, self-

reflection, and collaboration. (Applied Learning)
Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
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Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

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<tbody>
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<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 101</td>
<td>Two-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 102</td>
<td>Three-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 118</td>
<td>History of Art, Prehistory to Renaissance-GTAH1</td>
<td>3</td>
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<td>ARTE 119</td>
<td>History of Art, Renaissance to Present-GTAH1</td>
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</tr>
<tr>
<td>ARTS 151</td>
<td>Foundation Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 152</td>
<td>Foundation Drawing II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 18

Program Specific Degree Requirements

(30 semester hours, must pass all courses with a grade of "B" or higher.)

- Candidates are expected to earn a minimum grade of "B" in all licensure classes (EDUC prefix courses), which must be taken in sequence prescribed by the Center for Teacher Education. The licensure sequence is begun during the junior year (usually fall semester), and requires four semesters for completion.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTE 112</td>
<td>Three-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 113</td>
<td>History of Art, Renaissance to Present-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 151</td>
<td>Foundation Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 152</td>
<td>Foundation Drawing II</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Courses

Art Specialization
ARTS 110  Digital Photography  3
ARTS 241  Beginning Hand Building  3
ARTS 242  Beginning Wheel Throwing  3
ARTT 270  Sculpture I  3
ARTS 274  Printmaking: Intaglio and Relief  3
ARTS 291  Painting I: Intro to Painting  3
ARTH 315  Nineteenth-Century Art  3
ARTH 316  20th Century Art to 1950  3

Art Certification Specialty
6 semester hours of 300-Level ARTS or ARTT courses  6
Total Semester Credit Hours  30

General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 3 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours  3

K-12 Licensure Requirements
(32 semester hours)

Program Requirements: ENGL 111, ENGL 112, PSYC 233, EDUC 115 and EDUC 215 (all with a grade of "B" or better) and formal acceptance to the Teacher Education Program

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator (8 field experience hours)</td>
<td>1</td>
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<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession (12 field experience hours)</td>
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</tr>
<tr>
<td>EDUC 342</td>
<td>Pedagogy and Assessment: Secondary and K-12 (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 343</td>
<td>Teaching to Diversity (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 410</td>
<td>Elementary Art Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 410L</td>
<td>Field/Studio Experience in Elementary Art Education Methods (40 field experience hours)</td>
<td>1</td>
</tr>
<tr>
<td>ARTD 412</td>
<td>Secondary Art Education Methods (40 field experience hours)</td>
<td>4</td>
</tr>
<tr>
<td>EDUC 442</td>
<td>Integrating Literacy Across the Curriculum: Secondary and K-12 Art (60 field experience hours)</td>
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<tr>
<td>EDUC 475</td>
<td>Classroom Management for K-12 Educators</td>
<td>1</td>
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<tr>
<td>EDUC 499D</td>
<td>Teaching Internship and Colloquia: Elementary for K-12 (300 field experience hours)</td>
<td>6</td>
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<tr>
<td>EDUC 499H</td>
<td>Teaching Internship and Colloquia: Secondary for K-12 (300 field experience hours)</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours  32

All EDUC prefix courses listed above must be completed with a grade of B or better to progress through the program sequence. Students must take the PRAXIS II exam in the content area prior to commencing the internship. Also, ALL other coursework toward the degree must be successfully completed prior to the internship.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<td>History of Art, Prehistory to Renaissance GTAH1</td>
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</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
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<tr>
<td>ARTE 101</td>
<td>Two-Dimensional Design GTAH1</td>
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<td>ARTS 151</td>
<td>Foundation Drawing I</td>
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</table>

First Year
Fall Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition GTCO2</td>
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<td>KINA Activity</td>
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</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td></td>
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<tr>
<td>Essential Learning - Natural Science</td>
<td></td>
<td>3</td>
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<tr>
<td>ARTE 102</td>
<td>Three-Dimensional Design GTAH1</td>
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<tr>
<td>ARTS 119</td>
<td>History of Art, Renaissance to Present GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
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Spring Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>EDUC 241</td>
<td>Beginning Hand Building</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 274</td>
<td>Printmaking: Intaglio and Relief</td>
<td>3</td>
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<tr>
<td>ARTS 110</td>
<td>Digital Photography</td>
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<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession</td>
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<td>ESSL 290</td>
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Second Year
Fall Semester
<table>
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<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ARTE 315</td>
<td>Nineteenth-Century Art</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 291</td>
<td>Painting I: Intro to Painting</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 434</td>
<td>Pedagogy and Assessment: Secondary and K-12</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 433</td>
<td>Teaching to Diversity</td>
<td>3</td>
</tr>
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</table>

Spring Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>ARTD 410</td>
<td>Elementary Art Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>ARTD 410L</td>
<td>Field/Studio Experience in Elementary Art Education Methods</td>
<td>1</td>
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</tbody>
</table>

Third Year
Fall Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 316</td>
<td>20th Century Art to 1950</td>
<td>3</td>
</tr>
<tr>
<td>ARTS Upper Division Certification Specialty</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Spring Semester
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTD 412</td>
<td>Secondary Art Education Methods</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 442</td>
<td>Integrating Literacy Across the Curriculum: Secondary and K-12 Art</td>
<td>3</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Studio Art, Art (BFA)

Degree: Bachelor of Fine Arts
Major: Art
Concentration: Studio Art
Program Code: 3272

About This Major . . .

The BFA degree in Art with a concentration in Studio Art is designed to prepare students with strong technical skills in a variety of art media. This skill combined with an art historical background will allow them to develop an individual focus in their art. Students can take a variety of two-dimensional courses in drawing, painting, printmaking, or photography. In the three-dimensional area, they can study ceramics, metal casting and sculpture. Extensive studies in Art History engage the students in historic and contemporary artists, art movements, and artistic styles and allows students to understand and place their art within a historical context. A BFA with a concentration in Studio Art prepares the student for graduate school and a career as a professional artist.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Interpret and apply formal elements and principles of design. (Critical Thinking)
2. Demonstrate application of tools, materials, techniques, and proper use and care for equipment through quality craftsmanship. (Applied Learning)
3. Generate individual response through concept and theory beyond formal elements to create personal content. (Communication Fluency)
4. Communicate clearly regarding the critical analysis of art and design both historical and contemporary. (Specialized Knowledge/Communication Fluency)
5. Create and sustain a body of work through self-directed research, experimentation, risk-taking, and reflective analysis. (Applied Learning)
6. Justify critical analysis of artwork based on material, conceptual, and critical analysis. (Critical Thinking)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practice.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

## Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

## Foundation Courses
(18 semester hours, must pass all courses with a grade of "B" or better.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTE 101</td>
<td>Two-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 102</td>
<td>Three-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 118</td>
<td>History of Art, Prehistory to Renaissance-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 119</td>
<td>History of Art, Renaissance to Present-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 151</td>
<td>Foundation Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 152</td>
<td>Foundation Drawing II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 18

## Program Specific Degree Requirements
(57 semester hours, must pass all courses with a grade of “C” or higher, unless otherwise noted.)

Required for this degree:

• 3.00 cumulative GPA or higher in all 200-, 300-, and 400-level Studio Art major courses.

• Minimum grade of “C” in all 200-, 300-, and 400-level Studio Art major courses.

• No more than 6 semester hours of independent study courses can be used toward the degree.

• Special requirements for admission into the Studio Art program: Every student who is a sophomore in academic standing, or a transfer student with 60 credits or more (including students transferring into a Studio Art emphasis from K-12 Teaching, Graphic Design, or Art History) must satisfy the following requirements:

1. Completion of ARTE 294 Sophomore Seminar with grade of “B” or better.

2. Completion of Art Foundation Courses ARTE 101, ARTE 102, ARTE 118, ARTE 119 and ARTS 151, ARTS 152, with a grade of “B” or better.

3. Maintain a cumulative GPA of 3.00 or higher in all 200-, 300-, and 400-level Studio Art major courses.

4. Successful completion of Art entrance exam with a minimum of 80%.

5. Completion of all 200-, 300-, and 400-level Studio Art major courses with a grade of “C” or better.

• Additional fees are required throughout the studio art program for materials.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTH 220</td>
<td>History of Modern Art</td>
<td>3</td>
</tr>
</tbody>
</table>

Art History Upper Division
6 semester hours of ARTH, 300- or 400-Level

Art Studio 200-Level

ARTS 251 Life Drawing 3
ARTS 274 Printmaking: Intaglio and Relief 3
ARTS 241 Beginning Hand Building 3
or ARTS 242 Beginning Wheel Throwing
ARTS 291 Painting I: Intro to Painting 3
ARTT 270 Sculpture I 3

Professional Practice

ARTE 294 Sophomore Seminar 3
ARTE 494 Senior Seminar and Portfolio 3

Art Studio 300-Level

15 semester hours of ARTS or ARTT 300-Level courses 15

Art Studio 400-Level

12 semester hours of ARTS or ARTT 400-Level courses 12

Total Semester Credit Hours 57

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours, including 40 upper division hours. 8 semester hours, at least 4 of which must be upper division.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<td>8</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
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<td>8</td>
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</table>

Course Title Semester Credit Hours

<table>
<thead>
<tr>
<th>First Year</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>History of Art, Prehistory to Renaissance-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 118</td>
<td>Two-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 101</td>
<td>Foundation Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 151</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring Semester</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>KINA Activity</td>
<td>1</td>
</tr>
<tr>
<td>ARTE 102</td>
<td>Three-Dimensional Design-GTAH1</td>
<td>3</td>
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<tr>
<td>ARTE 119</td>
<td>History of Art, Renaissance to Present-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 152</td>
<td>Foundation Drawing II</td>
<td>3</td>
</tr>
<tr>
<td>ARTS or ARTT 200-Level Studio</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100 Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ARTS or ARTT 200-Level Studio (2 courses)</td>
<td>6</td>
</tr>
<tr>
<td>ARTH 220 History of Modern Art</td>
<td>3</td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Natural Science with Lab</td>
<td>4</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td>3</td>
</tr>
<tr>
<td>ARTS or ARTT 200-Level Studio (2 courses)</td>
<td>6</td>
</tr>
<tr>
<td>ARTE 294 Sophomore Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>ESSL 290 Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200 Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>ARTS or ARTT 300-Level Studio (2 courses)</td>
<td>6</td>
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</tbody>
</table>

Essential Learning - Humanities 3
ARTS or ARTT 200-Level Studio (2 courses) 6
ARTE 294 Sophomore Seminar 3

Semester Credit Hours 16

Spring Semester

<table>
<thead>
<tr>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ESSL 200 Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>ARTE 294 Sophomore Seminar</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 494 Senior Seminar and Portfolio</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
</tr>
<tr>
<td>ARTS or ARTT 400-Level Studio (2 courses)</td>
<td>6</td>
</tr>
</tbody>
</table>

Semester Credit Hours 14

Spring Semester

<table>
<thead>
<tr>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essential Learning - Humanities</td>
<td>3</td>
</tr>
<tr>
<td>ARTS or ARTT 300-Level Studio (2 courses)</td>
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</tbody>
</table>

Semester Credit Hours 15

Fourth Year

<table>
<thead>
<tr>
<th>Title</th>
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</thead>
<tbody>
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<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td>5</td>
</tr>
<tr>
<td>ARTS or ARTT 400-Level Studio (2 courses)</td>
<td>6</td>
</tr>
</tbody>
</table>

Semester Credit Hours 14

Spring Semester

<table>
<thead>
<tr>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS or ARTT 400-Level Studio (2 courses)</td>
<td>6</td>
</tr>
</tbody>
</table>

Semester Credit Hours 12

Total Semester Credit Hours 117

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

**Studio Art, Art (BA)**

Degree: Bachelor of Arts  
Major: Studio Art  
Program Code: 3277

**About This Major . . .**

A Bachelor of Art in Studio Art gives students strong technical skills and an art historical background while providing a general exposure to all of the disciplines in the studio art program. A BA in Art provides students numerous career paths requiring an art education. Students take a variety of 2D and 3D courses in drawing, painting, printmaking, ceramics, and sculpture. Students may customize their degree to meet their individual needs and would be well prepared to enter the art field and look for jobs that require a studio art education.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Interpret and apply formal elements and principles of design. (Critical Thinking)
2. Demonstrate application of tools, materials, techniques, and proper use and care for equipment through quality craftsmanship. (Applied Learning)
3. Generate individual response through concept and theory beyond formal elements to create personal content. (Communication Fluency)
4. Communicate clearly regarding the critical analysis of art and design both historical and contemporary. (Specialized Knowledge/Communication Fluency)
5. Create and sustain a body of work through self-directed research, experimentation, risk-taking, and reflective analysis. (Applied Learning)
6. Justify critical analysis of artwork based on material, conceptual, and critical analysis. (Critical Thinking)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>History</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Social and Behavioral Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Fine Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>31</td>
</tr>
</tbody>
</table>
Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.

One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wellness Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>KINE 100 Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Essential Learning Capstone</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ESSL 290 Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ESSL 200 Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

(6 semester hours, must earn a grade of "C" or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select two consecutive classes in the same foreign language</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

1 FLAS 114 & FLAS 115 will NOT fulfill this requirement.

Program Specific Degree Requirements

(48 semester hours)

- No more than 6 semester hours of independent study courses can be used toward the degree.
- Additional fees are required throughout the studio art program for materials.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td>Core Courses</td>
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</tr>
<tr>
<td></td>
<td>Art Core</td>
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</tr>
<tr>
<td></td>
<td>ARTE 101 Two-Dimensional Design-GTAH1</td>
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<tr>
<td></td>
<td>ARTE 102 Three-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTE 119 History of Art, Renaissance to Present-GTAH1</td>
<td>3</td>
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<tr>
<td></td>
<td>ARTS 151 Foundation Drawing I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Art History</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select two 300- or 400-level Art History courses</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Art Studio</td>
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<tr>
<td></td>
<td>ARTS 291 Painting I: Intro to Painting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTT 270 Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTS 241 Beginning Hand Building</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or ARTS 242 Beginning Wheel Throwing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Core Courses</td>
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</tr>
<tr>
<td></td>
<td>Art Core</td>
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</tr>
<tr>
<td></td>
<td>ARTE 101 Two-Dimensional Design-GTAH1</td>
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<td></td>
<td>ARTE 102 Three-Dimensional Design-GTAH1</td>
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<td>ARTS 151 Foundation Drawing I</td>
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<td></td>
<td>Art History</td>
<td></td>
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<tr>
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<td>Select two 300- or 400-level Art History courses</td>
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<tr>
<td></td>
<td>Art Studio</td>
<td></td>
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<tr>
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<td>ARTS 291 Painting I: Intro to Painting</td>
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<td>ARTT 270 Sculpture I</td>
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<tr>
<td></td>
<td>ARTS 241 Beginning Hand Building</td>
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<tr>
<td></td>
<td>or ARTS 242 Beginning Wheel Throwing</td>
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</tbody>
</table>

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 29 semester hours; 16 hours of upper division may be needed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
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<tr>
<td></td>
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<td>ENGL 111 English Composition-GTC01</td>
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<tr>
<td></td>
<td>MATH 110 College Mathematics-GTMA1</td>
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<td>ARTE 101 Two-Dimensional Design-GTAH1</td>
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<td></td>
<td>ARTS 119 History of Art, Renaissance to Present-GTAH1</td>
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<td></td>
<td>ARTS 151 Foundation Drawing I</td>
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<td>Spring Semester</td>
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<td></td>
<td>ENGL 112 English Composition-GTC02</td>
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<tr>
<td></td>
<td>Essential Learning - Humanities</td>
<td>3</td>
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<tr>
<td></td>
<td>ARTS 291 Painting I: Intro to Painting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTS 241 Beginning Hand Building</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTS 274 Printmaking: Intaglio and Relief</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTT 270 Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Upper Division Art History Elective</td>
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<tr>
<td></td>
<td>Second Year</td>
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<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTS 274 Printmaking: Intaglio and Relief</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTT 270 Sculpture I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Upper Division Art History Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Third Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science with Lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>KINE 100 Health and Wellness</td>
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<tr>
<td></td>
<td>KINA Activity</td>
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<tr>
<td></td>
<td>Essential Learning - History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTS or ARTT 300-Level Studio (2 courses)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Foreign Language</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTS or ARTT 300-Level Studio</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ARTS or ARTT 400-Level Studio</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 48
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Program Specific Minor Requirements

(27 semester hours, must maintain a 3.00 cumulative GPA or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARTE 101</td>
<td>Two-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 102</td>
<td>Three-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 151</td>
<td>Foundation Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 semester hours from Art Studio (ARTS or ARTT) 200-level classes in Figure Drawing, Printmaking, Painting, Carving, Foundry, Sculpture, or Ceramics</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>Select 9 semester hours from Art Studio (ARTS or ARTT) 300-level or 400-level classes in either two-dimensional or three-dimensional courses</td>
<td>9</td>
<td></td>
</tr>
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<td>Total Semester Credit Hours</td>
<td>27</td>
<td></td>
</tr>
</tbody>
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If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Program Specific Minor Requirements

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<td></td>
</tr>
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<td></td>
</tr>
<tr>
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</table>
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advisor is essential in planning courses and developing a suggested
course sequencing. It is ultimately the student’s responsibility to
understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the
official record used by the Registrar’s Office to evaluate progress towards
a minor. Students are responsible for reviewing their DegreeWorks audit
on a regular basis and should discuss questions or concerns with their
advisor or academic department head for the minor. Discrepancies in
requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a
baccalaureate degree outside the major field of study. Students should
follow the graduation process outlined for the baccalaureate degree and
list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his
responsibility to consult the Registrar’s Office regarding next steps.
AVIATION TECHNOLOGY

Program Description
The Aviation Technology program prepares the student for FAA certification as a Commercial Pilot with an Instrument Rating, and as a Certified Flight Instructor. In addition, the program offers opportunities to enhance knowledge and expertise in the aviation field by improving technical skills.

Requirements for admission to the program:
1. Must complete all Developmental Education requirements prior to starting the program.
2. Submit a copy of birth certificate to establish U.S. Citizenship.
3. Complete a flight physical exam with an FAA-designated Aviation Medical Examiner. Recommend a second class medical certificate minimum. To help locate a qualified doctor go to: http://ame.cami.jccbi.gov for a list by city and state.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
• Fixed Wing, Aviation Technology (AAS) (p. 179)

Fixed Wing, Aviation Technology (AAS)
Degree: Associate of Applied Science
Major: Aviation Technology
Emphasis: Fixed Wing
Program Code: 1378

About This Major . . .
The Aviation Technology program with a Fixed Wing emphasis will provide technical certificate for college credit as identified in the Colorado Mesa University mission established by the Colorado Legislature. The goals of the program are: prepare the students for FAA Certification as a Commercial Pilot with an Instrument Rating, and as a Certified Flight Instructor. In addition, the program offers opportunities to enhance knowledge and expertise in the field of aviation by improving technical skills. Successful completion of the Aviation Technology program will also help prepare AAS students for BS programs in Aviation Technology. For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:


2. Demonstrate flight proficiency skills in Private Pilot, Commercial Pilot and Instrument Flight operations contained in a FAA Part 141 curriculum.

3. Demonstrate strong quantitative literacy skills and the ability to think critically in a demanding environment.

Additional requirements for admission to the program:
1. Must complete all Developmental Education requirements prior to starting the program.
2. Submit a copy of your birth certificate to establish U.S Citizenship.
3. Complete a flight physical exam with an FAA-designated Aviation Medical Examiner. Recommend a second class medical certificate minimum. To help locate a qualified doctor go to http://ame.cami.jccbi.gov for a list by city and state.

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this degree:
- 66 semester hours total for the AAS, Aviation Technology - Fixed Wing.
- A minimum of 40 semester hours must be taken at CMU in no fewer than three semesters.
- A cumulative grade point average of 2.5 or higher must be maintained for all courses taken.

Essential Learning Requirements
(16 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for
your major, you must use it to fulfill the major requirement and make a
different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester</th>
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**Communication**

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
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Select one of the following courses:

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
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<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
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<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
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**Mathematics**

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<th>Code</th>
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<tbody>
<tr>
<td>MATH 108</td>
<td>Technical Mathematics</td>
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**Other Essential Learning Core Courses**

<table>
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<th>Code</th>
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<tbody>
<tr>
<td>GEOL 103</td>
<td>Weather and Climate-GTSC2</td>
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<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
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Total Semester Credit Hours 16

**Other Lower Division Requirements**

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<th>Code</th>
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<td>Credit Hours</td>
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**Wellness Requirement**

<table>
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<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
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Select one Activity course

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Credit Hours</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 2

**Program Specific Degree Requirements**

(48 semester hours, must be completed with a grade of “C” or better. A cumulative grade point average of 2.5 or higher must be maintained for all courses taken.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>Credit Hours</td>
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</table>

**Core Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>AVTN 101</td>
<td>Private Pilot Ground School</td>
<td>4</td>
</tr>
<tr>
<td>AVTN 102</td>
<td>Private Pilot Flight (49 hrs)</td>
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</tr>
<tr>
<td>AVTN 111</td>
<td>Instrument Pilot Ground School</td>
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</tr>
<tr>
<td>AVTN 112</td>
<td>Instrument Pilot Flight (37 hrs)</td>
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</tr>
<tr>
<td>AVTN 105</td>
<td>Aviation Meteorology</td>
<td>4</td>
</tr>
<tr>
<td>AVTN 140</td>
<td>Aircraft Systems</td>
<td>4</td>
</tr>
<tr>
<td>AVTN 206</td>
<td>Crew Resource Management</td>
<td>1</td>
</tr>
<tr>
<td>AVTN 201</td>
<td>Commercial Pilot Ground School</td>
<td>2</td>
</tr>
<tr>
<td>AVTN 202</td>
<td>Commercial Pilot Flight I (80 hrs)</td>
<td>4</td>
</tr>
<tr>
<td>AVTN 203</td>
<td>Commercial Pilot Flight II (52 hrs)</td>
<td>3</td>
</tr>
<tr>
<td>AVTN 218</td>
<td>ATC Procedures</td>
<td>4</td>
</tr>
<tr>
<td>AVTN 205</td>
<td>Mountain Flying Ground School</td>
<td>1</td>
</tr>
<tr>
<td>AVTN 296</td>
<td>Topics: (Special Topics · Safety)</td>
<td>2</td>
</tr>
<tr>
<td>AVTN 296</td>
<td>Topics: (Special Topics · Physiology)</td>
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</table>

**Track Courses**

Complete all courses in one of the following tracks

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester</th>
</tr>
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<tbody>
<tr>
<td></td>
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Track 1 - CFI:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>AVTN 211</td>
<td>Fundamentals of Instruction</td>
<td></td>
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<tr>
<td>AVTN 212</td>
<td>Flight Instructor Ground School</td>
<td></td>
</tr>
<tr>
<td>AVTN 213</td>
<td>Flight Instructor Flight</td>
<td></td>
</tr>
<tr>
<td>AVTN 207</td>
<td>Multi-Engine Ground School</td>
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</tr>
<tr>
<td>AVTN 208</td>
<td>Multi-Engine Flight</td>
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Elective · Special Topics 296

Total Semester Credit Hours 48

<table>
<thead>
<tr>
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<tbody>
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<td>Credit Hours</td>
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First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>AVTN 101</td>
<td>Private Pilot Ground School</td>
<td>4</td>
</tr>
<tr>
<td>AVTN 102</td>
<td>Private Pilot Flight</td>
<td>4</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Technical Mathematics</td>
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</tr>
<tr>
<td>GEOL 103</td>
<td>Weather and Climate-GTSC2</td>
<td>3</td>
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<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
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Semester Credit Hours 16

<table>
<thead>
<tr>
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<tr>
<td>AVTN 111</td>
<td>Instrument Pilot Ground School</td>
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<tr>
<td>AVTN 112</td>
<td>Instrument Pilot Flight</td>
<td>4</td>
</tr>
<tr>
<td>AVTN 105</td>
<td>Aviation Meteorology</td>
<td>4</td>
</tr>
<tr>
<td>AVTN 140</td>
<td>Aircraft Systems</td>
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Semester Credit Hours 17

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester</th>
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<tbody>
<tr>
<td>AVTN 201</td>
<td>Commercial Pilot Ground School</td>
<td>2</td>
</tr>
<tr>
<td>AVTN 202</td>
<td>Commercial Pilot Flight I</td>
<td>4</td>
</tr>
<tr>
<td>AVTN 218</td>
<td>ATC Procedures</td>
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<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
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Semester Credit Hours 11

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<th>Course</th>
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<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
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Second Year

<table>
<thead>
<tr>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>AVTN 203</td>
<td>Commercial Pilot Flight II</td>
<td>3</td>
</tr>
<tr>
<td>AVTN 205</td>
<td>Mountain Flying Ground School</td>
<td>1</td>
</tr>
<tr>
<td>AVTN 296</td>
<td>Topics: (Special Topics · Safety)</td>
<td>2</td>
</tr>
<tr>
<td>AVTN 296</td>
<td>Topics: (Special Topics · Physiology)</td>
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</tr>
<tr>
<td>AVTN 207</td>
<td>Multi-Engine Ground School</td>
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Semester Credit Hours 16

<table>
<thead>
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Spring Semester First Mod

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<th>Title</th>
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<tbody>
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<td>AVTN 203</td>
<td>Commercial Pilot Flight II</td>
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<td>AVTN 205</td>
<td>Mountain Flying Ground School</td>
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</tr>
<tr>
<td>AVTN 296</td>
<td>Topics: (Special Topics · Safety)</td>
<td>2</td>
</tr>
<tr>
<td>AVTN 296</td>
<td>Topics: (Special Topics · Physiology)</td>
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Semester Credit Hours 16

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<tbody>
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<td>AVTN 207</td>
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Semester Credit Hours 15

<table>
<thead>
<tr>
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<td>Credit Hours</td>
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Spring Semester Second Mod

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<th>Title</th>
<th>Semester</th>
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<td>AVTN 203</td>
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<tr>
<td>AVTN 205</td>
<td>Mountain Flying Ground School</td>
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</tr>
<tr>
<td>AVTN 296</td>
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<tr>
<td>AVTN 296</td>
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</table>

Elective · Special Topics 296

Semester Credit Hours 16

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
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</table>

Semester Credit Hours 16

Total Semester Credit Hours 82
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
BAKING AND PASTRY

Program Description
This program will prepare students for employment in the field of baking and the art of pastries. The Associate of Applied Science program will develop the students’ skills and understanding in the production of chocolates, confections, pastries, ice creams and frozen desserts, yeast products, quick breads, sculpted items, sugar work, use of fruits and international desserts. Business and management courses to be taken include nutrition, purchasing, supervision, and business information technology.

Upon completion of the program, students will be prepared for an entry-level position in the broad and expanding hospitality industry as well as prepared to continue for advanced study in the Bachelor of Applied Science in Hospitality Management.

Contact Information
Office of Student Services, WCCC
Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
• Baking and Pastry (AAS) (p. 182)

Certificates
• Bakeshop Production (Technical Certificate) (p. 184)

Baking and Pastry (AAS)
Degree: Associate of Applied Science
Major: Baking and Pastry
Major Code: 1340

About This Major . . .
This program will prepare students for employment in the field of baking and the art of pastries. The Associate of Applied Science program will develop the students’ skills and understanding in the production of chocolates, confections, pastries, ice creams and frozen desserts, yeast products, quick breads, sculpted items, sugar work, use of fruits and international desserts. Business and management courses to be taken include nutrition, purchasing, supervision, and business information technology.

Upon completion of the program, students will be prepared for an entry-level position in the broad and expanding hospitality industry as well as prepared to continue for advanced study in the Bachelor of Applied Science in Hospitality Management.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of safety and sanitation to workplace settings. (Applied Learning)
2. Apply mathematical concepts and practices to the field of baking and pastry as a basis for accurate ingredient measurements, high altitude adjustment, and formula yield conversion. (Quantitative Fluency)
3. Apply appropriate vocabulary used in the field of baking and pastries for equipment, tools, ingredients and menu items. (Specialized Knowledge/Communication Fluency)
4. Identify, formulate and assess a variety of baked products. (Specialized Knowledge)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 60 semester hours minimum.
• Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this degree:
• 62 semester hours total for the AAS, Baking and Pastry.

Essential Learning Requirements
(15 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
</tbody>
</table>
### Other Lower Division Requirements

**Wellness Requirement**
- KINE 100 Health and Wellness 1
- Select one Activity course 1

**Total Semester Credit Hours**
- 2

### Program Specific Degree Requirements

(45 semester hours, must earn a grade of "C" or better in each course.)

- Additional expenses - Students in Baking and Pastry may be required to purchase or have cooking/baking tools and appropriate chef's clothing. This does not include required textbooks. These costs vary with student needs and brand or quality of tools purchased.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUAR</td>
<td>Core Classes</td>
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</tr>
<tr>
<td>101</td>
<td>Food Safety &amp; Sanitation</td>
<td>2</td>
</tr>
<tr>
<td>125</td>
<td>Introduction to Foods</td>
<td>4</td>
</tr>
<tr>
<td>145</td>
<td>Introduction to Baking</td>
<td>4</td>
</tr>
<tr>
<td>150</td>
<td>Baking: Decorating and Presentation</td>
<td>3</td>
</tr>
<tr>
<td>151</td>
<td>Intermediate Bread Preparation</td>
<td>3</td>
</tr>
<tr>
<td>152</td>
<td>Individual Fancy Desserts Production</td>
<td>3</td>
</tr>
<tr>
<td>156</td>
<td>Nutrition for the Hospitality Professional</td>
<td>3</td>
</tr>
<tr>
<td>160</td>
<td>Cake Decorating</td>
<td>5</td>
</tr>
<tr>
<td>236</td>
<td>Advanced Baking</td>
<td>3</td>
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<tr>
<td>255</td>
<td>Supervision in the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>262</td>
<td>Purchasing for the Hospitality Industry</td>
<td>3</td>
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<tr>
<td></td>
<td>One of the following courses:</td>
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</tr>
<tr>
<td></td>
<td>CISB 101 Business Information Technology</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or ABUS 257 Managing Office Technology I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KINA Activity course</td>
<td>1</td>
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<tr>
<td></td>
<td>ENGL 111 English Composition-GTCO1</td>
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<tr>
<td></td>
<td>MATH 107 Career Math</td>
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**Total Semester Credit Hours**
- 39

<table>
<thead>
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<tbody>
<tr>
<td></td>
<td>Restricted Electives</td>
<td></td>
</tr>
<tr>
<td>SPRCH</td>
<td>102 Speechmaking</td>
<td></td>
</tr>
<tr>
<td>MATH</td>
<td>107 Career Math (or higher)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
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</tbody>
</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are...
responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Bakeshop Production (Technical Certificate)**

**Degree:** Technical Certificate  
**Program of Study:** Bakeshop Production  
**Major Code:** 1141

**About This Major . . .**

This program will prepare students for employment in the field of baking and the art of pastries. The certificate program will develop the students’ skills and understanding in the production of pastries, yeast products, quick breads, use of fruits and international desserts. Students completing the certificate program could find employment in the following areas: baker, baking assistant, journeyman baker, cake decorator, or pastry cook, and are prepared to continue for advanced study in the Associates of Applied Science in Baking and Pastry, and Bachelors in Hospitality Management.

For more information on what you can do with this major, go to [http://www.coloradomesa.edu/wccc/programs.html](http://www.coloradomesa.edu/wccc/programs.html)

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of safety and sanitation to workplace settings.  
   **(Applied Learning)**
2. Apply mathematical concepts and practices to the field of baking and pastry as a basis for accurate ingredient measurements, high altitude adjustment, and formula yield conversion.  
   **(Quantitative Fluency)**
3. Apply appropriate vocabulary used in the field of baking and pastries for equipment, tools, ingredients and menu items.  
   **(Specialized Knowledge/ Communication Fluency)**
4. Identify, formulate and assess a variety of baked products.  
   **(Specialized Knowledge)**

**Institutional Certificate Requirements**

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.

The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

[Requirements for Undergraduate Degrees and Certificates](http://www.coloradomesa.edu/registrar/graduation.html) in the catalog for a complete list of graduation requirements.

**Program Specific Certificate Requirements**

(16 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUAR 101</td>
<td>Food Safety &amp; Sanitation 2</td>
<td></td>
</tr>
<tr>
<td>CUAR 125</td>
<td>Introduction to Foods 4</td>
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<td>CUAR 145</td>
<td>Introduction to Baking 4</td>
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<tr>
<td>CUAR 150</td>
<td>Baking: Decorating and Presentation 3</td>
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</tr>
<tr>
<td>CUAR 151</td>
<td>Intermediate Bread Preparation 3</td>
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**Total Semester Credit Hours**  
16

**First Year**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>CUAR 101</td>
<td>Food Safety &amp; Sanitation 2</td>
<td></td>
</tr>
<tr>
<td>CUAR 125</td>
<td>Introduction to Foods 4</td>
<td></td>
</tr>
<tr>
<td>CUAR 145</td>
<td>Introduction to Baking 4</td>
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</tr>
<tr>
<td>CUAR 150</td>
<td>Baking: Decorating and Presentation 3</td>
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</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
The Bachelor of Science degree with a biological science major provides a broad background in the biological sciences. Students choose biology courses from a variety of areas: cellular, developmental and molecular biology; anatomical and physiological biology; organismal biology; and ecology, evolution and systematics. The biology concentration also offers field courses on tropical ecosystems in Ecuador. Graduates of our program pursue careers in the medical field, plant pathology, wildlife biology, cell biology or biotechnology, among just a few of the career options available with a biology degree from Colorado Mesa University.

Students wishing to obtain teacher certification complete a concentration in secondary education leading to teacher licensure. Graduates of the program can teach in the state of Colorado or use their teaching expertise in other careers. After completing foundation sciences classes in biology, chemistry, physics and geology, students choose 10 hours of upper level biology course work, in consultation with their advisor.

**Contact Information**

Department of Biological Sciences  
Wubben Science 232  
970.248.1993

**Associates**

- Biology, Liberal Arts (AS) (p. 199)

**Bachelors/Minors**

- Biology (Minor) (p. 201)
- Biology, Biological Sciences (BS) (p. 186)
- Cellular, Molecular, and Developmental Biology, Biological Sciences (BS) (p. 189)
- Ecology, Evolution, and Organismal Biology, Biological Sciences (BS) (p. 193)
- Education: Secondary Education, Biological Sciences (BS) (p. 196)

**Biology, Biological Sciences (BS)**

Degree: Bachelor of Science  
Major: Biological Sciences  
Concentration: Biology  
Program Code: 3410

**About This Major . . .**

The Bachelor of Science degree with a Biological Science major provides a broad background in the biological sciences. Students choose biology courses from four areas: cell, developmental, and molecular biology; anatomical and physiological biology; organismal biology; and ecology, evolution, and systematics. Students wishing to obtain teacher certification complete a concentration in Teacher Licensure. The Biology Concentration also offers field courses on tropical ecosystems in Ecuador and on marine invertebrate communities in Oregon. The Department of Biology operates the only electron microscope facility in the area. Graduates of our program pursue careers in the medical field, plant pathology, wildlife biology, cell biology or biotechnology, among just a few of the career options available with a Biology degree from Colorado Mesa University.

For more information on what you can do with this major, go to [http://www.coloradomesa.edu/career/whatmajor.html](http://www.coloradomesa.edu/career/whatmajor.html).

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate a breadth of knowledge in the life sciences with an accompanying depth of knowledge particularly in the key areas of cell and molecular biology, organismal diversity, ecology, evolution and genetics. (Specialized Knowledge)
2. Utilize the scientific approach to address novel questions and problems through the development of hypotheses, design of experiments, collection of data, analysis of data, and interpretation of results. (Quantitative Fluency/Applied Learning)
3. Identify, examine, evaluate and discuss the scientific literature. (Critical Thinking)
4. Articulate biological principles and ideas effectively, both in written and oral form. (Communication Fluency)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
</tbody>
</table>

**Mathematics**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

**History**

Select one History course 3

**Humanities**

Select one Humanities course 3

**Social and Behavioral Sciences**

Select one Social and Behavioral Sciences course 3

Select one Social and Behavioral Sciences course 3

**Fine Arts**

Select one Fine Arts course 3

**Natural Sciences**

Select one Natural Sciences course 3

Select one Natural Sciences course with a lab 4

**Program Specific Degree Requirements**

(48 semester hours, must pass all courses with a grade of "C" or higher.)

- Topics courses (BIOL 196/BIOL 296/BIOL 396/BIOL 496) may not be used as Additional Biology Courses but must be used for elective credit.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 105</td>
<td>Attributes of Living Systems-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 105L</td>
<td>Attributes of Living Systems Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 131</td>
<td>General Chemistry I-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 131L</td>
<td>General Chemistry Laboratory I-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 132</td>
<td>General Chemistry II-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 132L</td>
<td>General Chemistry Laboratory II-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3-5</td>
</tr>
<tr>
<td>MATH 146</td>
<td>Calculus for Biological Sciences 2</td>
<td></td>
</tr>
</tbody>
</table>

**Foundation Courses**

(17 semester hours, must pass all courses with a grade of "C" or higher. Foundation courses should be completed by the end of the sophomore year.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 106</td>
<td>Principles of Animal Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 106L</td>
<td>Principles of Animal Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 107</td>
<td>Principles of Plant Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 107L</td>
<td>Principles of Plant Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111L</td>
<td>General Physics Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 112</td>
<td>General Physics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 112L</td>
<td>General Physics Laboratory-GTSC1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Additional Biology Courses**

Select 20 semester hours from at least three of the following four categories. 2

**Category 1: Cellular, Developmental, and Molecular**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 302</td>
<td>Cellular Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 310</td>
<td>Developmental Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 310L</td>
<td>and Developmental Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 343</td>
<td>Immunology</td>
<td></td>
</tr>
<tr>
<td>BIOL 344</td>
<td>Forensic Molecular Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 344L</td>
<td>and Forensic Molecular Biology Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
Biology, Biological Sciences (BS)

1. Laboratory Investigations in Cellular and Molecular Biology
2. Molecular Genetics
3. Pharmacology
4. Biochemistry and Biochemistry Laboratory

Category 2: Organismal

1. Introduction to Microbiology-GTSC1 and Introduction to Microbiology Laboratory-GTSC1
2. Animal Behavior and Animal Behavior Laboratory
3. Plant Identification and Plant Identification Laboratory
4. Insect Biology and Insect Biology Laboratory
5. Marine Biology
6. Invertebrate Zoology and Invertebrate Zoology Laboratory
7. Fish Biology and Fish Biology Laboratory
8. Microbiology and Microbiology Laboratory
9. Mammalogy and Mammalogy Laboratory
10. Ornithology and Ornithology Laboratory
11. Herpetology and Herpetology Laboratory
12. Animal Parasitology and Animal Parasitology Laboratory
13. Marine Invertebrate Communities
14. Mycology and Mycology Laboratory

Category 3: Anatomical and Physiological

1. Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory
2. Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory
3. Pathophysiology
4. General Physiology and General Physiology Laboratory
5. Gross and Developmental Human Anatomy and Gross and Developmental Human Anatomy Laboratory
6. Human Osteology and Human Osteology Laboratory
7. Plant Physiology and Plant Physiology Laboratory
8. Plant Anatomy and Plant Anatomy Laboratory
9. Endocrinology

Category 4: Ecology, Evolution, and Systematics

1. Ecosystem Biology and Ecosystem Biology Laboratory
2. Epidemiology

3. Plant Systematics
4. Taxonomy of Grasses and Taxonomy of Grasses Laboratory
5. Evolution
6. Advanced Ecological Methods and Advanced Ecological Methods Laboratory
7. Plant-Animal Interactions
8. Tropical Field Biology
9. Desert Ecology
10. Freshwater Ecology and Freshwater Ecology Laboratory
11. Tropical Ecosystems
12. Wildlife Management and Wildlife Field Techniques

- Total Semester Credit Hours: 48

1. A higher-level subject may be taken in the same category with advisor approval.
2. At least 50% must be at the 300-Level or above. At least one of the following must be included: BIOL 302, BIOL 341/BIOL 341L, or BIOL 421/BIOL 421L.

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours, including 40 upper-division credit hours. 18 semester hours; up to 24 hours of upper-division may be needed. It is strongly recommended that all electives be upper-division. Professional schools (medical, veterinary, dental) may require one or two semesters of organic chemistry, which may be taken to fulfill part of electives.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td>Select additional electives</td>
<td></td>
<td>17</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>18</td>
</tr>
</tbody>
</table>

1. May need additional elective hours to meet the minimum upper-level credit hours for degree. Meet with advisor to plan general elective hour needs.

Course Title Semester Credit Hours

First Year
Fall Semester
Biol 105 Attributes of Living Systems-GTSC1 4
& 105L Attributes of Living Systems Laboratory-GTSC1
Chem 131 General Chemistry I-GTSC1 5
& 131L General Chemistry Laboratory I-GTSC1
Math 113 College Algebra-GTMA1 4
Kine 100 Health and Wellness 1
Kina Activity 1

Spring Semester
Biol 106 Principles of Animal Biology 4
& 106L Principles of Animal Biology Laboratory
Chem 132 General Chemistry II-GTSC1 5
& 132L General Chemistry Laboratory II-GTSC1

Semester Credit Hours 15
Senior Thesis
Semester Credit Hours
16

Semester Credit Hours
Total Semester Credit Hours
118-122

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Cellular, Molecular, and Developmental Biology, Biological Sciences (BS)

Degree: Bachelor of Science
Major: Biological Sciences
Concentration: Cellular, Molecular, and Developmental Biology
Program Code: 3414

About This Major . . .

The Bachelor of Science degree with a Biological Sciences major provides a broad background in the biological sciences. Students choose biology courses from four categories: cellular, molecular, and developmental biology; anatomical and physiological biology; organismal biology; and ecology, evolution, and systematics. The Cellular, Molecular, and Developmental Biology Concentration will provide a solid background in cell and molecular biology, genetics, and biochemistry. The concentration prepares graduates of this program for careers in the medical field, cell biology, and biotechnology, which are just a few of the career options available.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate a breadth of knowledge in the life sciences with an accompanying depth of knowledge particularly in the key areas of cell and molecular biology, ecology, evolution, and genetics. (Specialized Knowledge)
2. Utilize the scientific approach to address novel questions and problems through the development of hypotheses, design of experiments, collection of data, analysis of data, and interpretation of results. (Quantitative Fluency/Applied Learning)

3. Identify, examine, evaluate, and discuss the scientific literature. (Critical Thinking)

4. Articulate biological principles and ideas effectively, both in written and oral form. (Communication Fluency)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>3</td>
</tr>
</tbody>
</table>

**History**

Select one History course 3

**Humanities**

Select one Humanities course 3

**Social and Behavioral Sciences**

Select one Social and Behavioral Sciences course 3

**Natural Sciences**

Select one Natural Sciences course 3

**Fine Arts**

Select one Fine Arts course 3

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 105</td>
<td>Attributes of Living Systems-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111L</td>
<td>General Physics Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3-5</td>
</tr>
<tr>
<td>or MATH 152</td>
<td>Calculus II</td>
<td>3</td>
</tr>
</tbody>
</table>

**Foundation Courses**

(17-19 semester hours, must pass each course with a grade of "C" or higher. Foundation courses should be completed by the end of the sophomore year.)
Program Specific Degree Requirements
(53 semester hours, must pass each course with a grade of "C" or higher.)

- Topics courses (BIOL 196/Biol 296/Biol 396/Biol 496) as well as research courses (BIOL 387/Biol 487), internships (Biol 499), teaching practicum (Biol 493), and independent study (Biol 495) may not be used as Additional Biology Courses but must be used for elective credit.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 208</td>
<td>Fundamentals of Ecology and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 208L</td>
<td>Fundamentals of Ecology and Evolution Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 301</td>
<td>Principles of Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 301L</td>
<td>Principles of Genetics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 483</td>
<td>Senior Thesis</td>
<td>2</td>
</tr>
</tbody>
</table>

Required Related Study Area

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 108 &amp; 108L</td>
<td>Diversity of Organisms-GTSC1 and Diversity of Organisms Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 310</td>
<td>Developmental Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 310L</td>
<td>Developmental Biology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 371L</td>
<td>Laboratory Investigations in Cellular and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 315</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 425</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311L</td>
<td>Organic Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 312</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 312L</td>
<td>Organic Chemistry II Laboratory</td>
<td>1</td>
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</tbody>
</table>

Additional Biology Courses

Select 12 semester hours from the following lists

Category 1: Cellular, Developmental, and Molecular

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>BIOL 343</td>
<td>Immunology</td>
<td></td>
</tr>
<tr>
<td>BIOL 344 &amp; 344L</td>
<td>Forensic Molecular Biology and Forensic Molecular Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 442</td>
<td>Pharmacology</td>
<td></td>
</tr>
<tr>
<td>CHEM 315L</td>
<td>Biochemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 316</td>
<td>Biochemistry II</td>
<td></td>
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</tbody>
</table>

Category 2: Organismal

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 250 &amp; 250L</td>
<td>Introduction to Microbiology-GTSC1 and Introduction to Microbiology Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>BIOL 316 &amp; 316L</td>
<td>Animal Behavior and Animal Behavior Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 322 &amp; 322L</td>
<td>Plant Identification and Plant Identification Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 331 &amp; 331L</td>
<td>Insect Biology and Insect Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 333</td>
<td>Marine Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 335 &amp; 335L</td>
<td>Invertebrate Zoology and Invertebrate Zoology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 336 &amp; 336L</td>
<td>Fish Biology and Fish Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 350 &amp; 350L</td>
<td>Microbiology and Microbiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 411 &amp; 411L</td>
<td>Mammalogy and Mammalogy Laboratory</td>
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<tr>
<td>BIOL 412 &amp; 412L</td>
<td>Ornithology and Ornithology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 413 &amp; 413L</td>
<td>Herpetology and Herpetology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 431 &amp; 431L</td>
<td>Animal Parasitology and Animal Parasitology Laboratory</td>
<td></td>
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<tr>
<td>BIOL 433</td>
<td>Marine Invertebrate Communities</td>
<td></td>
</tr>
<tr>
<td>BIOL 450 &amp; 450L</td>
<td>Mycology and Mycology Laboratory</td>
<td></td>
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</table>

Category 3: Anatomical and Physiological

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209 &amp; 209L</td>
<td>Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 210 &amp; 210L</td>
<td>Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td></td>
</tr>
<tr>
<td>BIOL 341 &amp; 341L</td>
<td>General Physiology and General Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 409 &amp; 409L</td>
<td>Gross and Developmental Human Anatomy and Gross and Developmental Human Anatomy Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 410 &amp; 410L</td>
<td>Human Osteology and Human Osteology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 421 &amp; 421L</td>
<td>Plant Physiology and Plant Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 423 &amp; 423L</td>
<td>Plant Anatomy and Plant Anatomy Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 441</td>
<td>Endocrinology</td>
<td></td>
</tr>
</tbody>
</table>

Category 4: Ecology, Evolution, and Systematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 211 &amp; 211L</td>
<td>Ecosystem Biology and Ecosystem Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 315</td>
<td>Epidemiology</td>
<td></td>
</tr>
<tr>
<td>BIOL 320</td>
<td>Plant Systematics</td>
<td></td>
</tr>
<tr>
<td>BIOL 321 &amp; 321L</td>
<td>Taxonomy of Grasses and Taxonomy of Grasses Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 403</td>
<td>Evolution</td>
<td></td>
</tr>
<tr>
<td>BIOL 405 &amp; 405L</td>
<td>Advanced Ecological Methods and Advanced Ecological Methods Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 406</td>
<td>Plant-Animal Interactions</td>
<td></td>
</tr>
<tr>
<td>BIOL 407</td>
<td>Tropical Field Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 408</td>
<td>Desert Ecology</td>
<td></td>
</tr>
<tr>
<td>BIOL 414 &amp; 414L</td>
<td>Freshwater Ecology and Freshwater Ecology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 415</td>
<td>Tropical Ecosystems</td>
<td></td>
</tr>
<tr>
<td>BIOL 418 &amp; 418L</td>
<td>Wildlife Management and Wildlife Field Techniques</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 53

### General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours, including 40 upper-division hours. 11-13 semester hours; up to 7 hours of upper division may be needed. Research courses are recommended.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 131</td>
<td>General Chemistry I-GTSC1 and General Chemistry Laboratory I-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>&amp; CHEM 132</td>
<td>General Chemistry II-GTSC1 and General Chemistry Laboratory II-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>Select additional electives</td>
<td></td>
<td>6-8</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**: 11-13

CHEM 131 and CHEM 131L as well as CHEM 132 and CHEM 132L are prerequisites for program requirements. If these courses are used to fulfill the Natural Science and Natural Science with a Lab requirements, the 3 credit hours beyond the 7 needed for these Essential Learning requirements will count toward elective credits.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 105 &amp; 105L</td>
<td>Attributes of Living Systems-GTSC1 and Attributes of Living Systems Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 131 &amp; 131L</td>
<td>General Chemistry I-GTSC1 and General Chemistry Laboratory I-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GTMA1</td>
<td>5</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 108 &amp; 108L</td>
<td>Diversity of Organisms-GTSC1 and Diversity of Organisms Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 132 &amp; 132L</td>
<td>General Chemistry II-GTSC1 and General Chemistry Laboratory II-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>STAT 200 or MATH 152</td>
<td>Probability and Statistics-GTMA1 or Calculus II</td>
<td>3-5</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 208 &amp; 208L</td>
<td>Fundamentals of Ecology and Evolution and Fundamentals of Ecology and Evolution Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311 &amp; 311L</td>
<td>Organic Chemistry I and Organic Chemistry I Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BIOL 301 &amp; 301L</td>
<td>Principles of Genetics and Principles of Genetics Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 312 &amp; 312L</td>
<td>Organic Chemistry II and Organic Chemistry II Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td></td>
<td>3</td>
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<tr>
<td>Essential Learning - Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Third Year</td>
<td></td>
<td></td>
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<tr>
<td>Fall Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 302</td>
<td>Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 111 &amp; 111L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 315</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BIOL 425</td>
<td>Molecular Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 483</td>
<td>Senior Thesis</td>
<td>2</td>
</tr>
<tr>
<td>Additional Biology Courses</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Electives (2 courses)</td>
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<td>5</td>
</tr>
<tr>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>14-16</strong></td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:
• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Ecology, Evolution, and Organismal Biology, Biological Sciences (BS)

Degree: Bachelor of Science
Major: Biological Sciences
Concentration: Ecology, Evolution, and Organismal Biology
Program Code: 3409

About This Major . . .
The Bachelor of Science degree with a Biological Sciences major provides a broad background in the biological sciences. Students choose biology courses from four categories: cellular, molecular, and developmental biology; anatomical and physiological biology; organismal biology; and ecology, evolution, and systematics. The Ecology, Evolution, and Organismal Biology Concentration will provide a solid background in ecology and evolution, and offers field courses in a variety of areas, in addition to internships and research opportunities. Graduates of this program may pursue careers in ecology, plant biology, fish and wildlife biology, and evolutionary biology, which are just a few of the career options available.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate a breadth of knowledge in the life sciences with an accompanying depth of knowledge particularly in the key areas of organismal diversity, ecology, evolution, and genetics. (Specialized Knowledge)
2. Utilize the scientific approach to address novel questions and problems through the development of hypotheses, design of experiments, collection of data, analysis of data, and interpretation of results. (Quantitative Fluency/Applied Learning)
3. Identify, examine, evaluate, and discuss the scientific literature. (Critical Thinking)
4. Articulate biological principles and ideas effectively, both in written and oral form. (Communication Fluency)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1 2</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
</tbody>
</table>
Select one Fine Arts course  

Natural Sciences 3
Select one Natural Sciences course 3
Select one Natural Sciences course with a lab 4

Total Semester Credit Hours 31

1. Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2. This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3. 7 semester hours, one course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wellness Requirement</td>
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<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Essential Learning Capstone</td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

(17-19 semester hours, must pass all courses with a grade of "C" or higher. Foundation courses should be completed by the end of the sophomore year.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 105</td>
<td>Attributes of Living Systems-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 105L</td>
<td>Attributes of Living Systems Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 131</td>
<td>General Chemistry I-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 131L</td>
<td>General Chemistry Laboratory I-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 132</td>
<td>General Chemistry II-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 132L</td>
<td>General Chemistry Laboratory II-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3-5</td>
<td></td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>2</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GTMA1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>17-19</td>
</tr>
</tbody>
</table>

1. A higher-level subject may be taken in the same category with advisor approval. Organic Chemistry may be required for admission to some graduate programs.
2. Statistics and Calculus may be required for admission to some graduate programs.

Program Specific Degree Requirements

(51 semester hours, must pass all courses with a grade of "C" or higher)

- Topics courses (BIOL 196/BIOL 296/BIOL 396/BIOL 496) as well as research courses (BIOL 387/BIOL 487), internships (BIOL 499), teaching practicums (BIOL 493), and independent study (BIOL 495) may not be used as Additional Biology Courses but must be used for elective credit.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 208</td>
<td>Fundamentals of Ecology and Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 208L</td>
<td>Fundamentals of Ecology and Evolution Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 301</td>
<td>Principles of Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 301L</td>
<td>Principles of Genetics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 483</td>
<td>Senior Thesis</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111L</td>
<td>General Physics Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 106</td>
<td>Principles of Animal Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 106L</td>
<td>Principles of Animal Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 107</td>
<td>Principles of Plant Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 107L</td>
<td>Principles of Plant Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 403</td>
<td>Evolution</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 405</td>
<td>Advanced Ecological Methods</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 405L</td>
<td>Advanced Ecological Methods Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 315</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 315L</td>
<td>and Biochemistry Laboratory</td>
<td>2</td>
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<tr>
<td>BIOL 250</td>
<td>Introduction to Microbiology-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 250L</td>
<td>and Introduction to Microbiology Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 316</td>
<td>Animal Behavior</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 316L</td>
<td>and Animal Behavior Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 322</td>
<td>Plant Identification</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 322L</td>
<td>and Plant Identification Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 331</td>
<td>Insect Biology</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 331L</td>
<td>and Insect Biology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 333</td>
<td>Marine Biology</td>
<td>3</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Semester Credit Hours</td>
</tr>
<tr>
<td>-------</td>
<td>-------------------------------------------------------------</td>
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</tr>
<tr>
<td>BIOL 335 &amp; 335L</td>
<td>Invertebrate Zoology and Invertebrate Zoology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 336 &amp; 336L</td>
<td>Fish Biology and Fish Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 350 &amp; 350L</td>
<td>Microbiology and Microbiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 411 &amp; 411L</td>
<td>Mammalogy and Mammalogy Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 412 &amp; 412L</td>
<td>Ornithology and Ornithology Laboratory</td>
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</tr>
<tr>
<td>BIOL 413 &amp; 413L</td>
<td>Herpetology and Herpetology Laboratory</td>
<td></td>
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<tr>
<td>BIOL 431 &amp; 431L</td>
<td>Animal Parasitology and Animal Parasitology Laboratory</td>
<td></td>
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<tr>
<td>BIOL 433</td>
<td>Marine Invertebrate Communities</td>
<td></td>
</tr>
<tr>
<td>BIOL 450 &amp; 450L</td>
<td>Mycology and Mycology Laboratory</td>
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</tr>
</tbody>
</table>

**Category 3: Anatomical and Physiological**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209 &amp; 209L</td>
<td>Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 210 &amp; 210L</td>
<td>Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td></td>
</tr>
<tr>
<td>BIOL 341 &amp; 341L</td>
<td>General Physiology and General Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 409 &amp; 409L</td>
<td>Gross and Developmental Human Anatomy and Gross and Developmental Human Anatomy Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 410 &amp; 410L</td>
<td>Human Osteology and Human Osteology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 421 &amp; 421L</td>
<td>Plant Physiology and Plant Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 423 &amp; 423L</td>
<td>Plant Anatomy and Plant Anatomy Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 441</td>
<td>Endocrinology</td>
<td></td>
</tr>
</tbody>
</table>

**Category 4: Ecology, Evolution, and Systematics**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 211 &amp; 211L</td>
<td>Ecosystem Biology and Ecosystem Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 315</td>
<td>Epidemiology</td>
<td></td>
</tr>
<tr>
<td>BIOL 320</td>
<td>Plant Systematics</td>
<td></td>
</tr>
<tr>
<td>BIOL 321 &amp; 321L</td>
<td>Taxonomy of Grasses and Taxonomy of Grasses Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 406</td>
<td>Plant-Animal Interactions</td>
<td></td>
</tr>
<tr>
<td>BIOL 407</td>
<td>Tropical Field Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 408</td>
<td>Desert Ecology</td>
<td></td>
</tr>
<tr>
<td>BIOL 414 &amp; 414L</td>
<td>Freshwater Ecology and Freshwater Ecology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 415</td>
<td>Tropical Ecosystems</td>
<td></td>
</tr>
<tr>
<td>BIOL 418 &amp; 418L</td>
<td>Wildlife Management and Wildlife Field Techniques</td>
<td></td>
</tr>
<tr>
<td>GIST 305</td>
<td>Cartography for GIS</td>
<td></td>
</tr>
<tr>
<td>GIST 332 &amp; 332L</td>
<td>Introduction to Geographic Information Systems and Introduction to Geographic Information Systems Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

**GEOS 131** Introduction to Cartography

**General Electives**

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours, including 40 upper-division hours. 13-15 semester hours; up to 10 hours of upper division may be needed. BIOL 499 Internship or research courses are recommended.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
</tbody>
</table>

12-14 General Elective Semester Hours

Total Semester Credit Hours

13-15

**Course**

<table>
<thead>
<tr>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
</tr>
</tbody>
</table>

**First Year**

**Fall Semester**

| BIOL 105 & 105L | Attributes of Living Systems-GTSC1 and Attributes of Living Systems Laboratory-GTSC1 | 4                     |
| CHEM 131 & 131L | General Chemistry I-GTSC1 and General Chemistry Laboratory I-GTSC1                  | 5                     |
| MATH 113 | College Algebra-GTMA1                             | 4                     |
| KINE 100 | Health and Wellness                             | 1                     |

**Second Year**

**Fall Semester**

| BIOL 106 & 106L | Principles of Animal Biology and Principles of Animal Biology Laboratory | 4                     |
| CHEM 132 & 132L | General Chemistry II-GTSC1 and General Chemistry Laboratory II-GTSC1        | 5                     |
| ENGL 111 | English Composition-GTCO1                         | 3                     |
| STAT 200 or MATH 151 | Probability and Statistics-GTMA1 or Calculus I-GTMA1 | 3-5                   |

**Spring Semester**

| BIOL 107 & 107L | Principles of Plant Biology and Principles of Plant Biology Laboratory | 4                     |
| PHYS 111 & 111L | General Physics-GTSC1 and General Physics Laboratory-GTSC1           | 5                     |
| ENGL 112 | English Composition-GTCO2                          | 3                     |
| Essential Learning - Social and Behavioral Sciences |                                       | 3                     |

**Third Year**

**Fall Semester**

| BIOL 403 | Evolution                                  | 3                     |
| Essential Learning - History |                                                   | 3                     |
| ESSL 200 | Essential Speech                           | 1                     |
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Education: Secondary Education, Biological Sciences (BS)

Degree: Bachelor of Science
Major: Biological Sciences
Concentration: Biology, Secondary Education
Program Code: 3412

About This Major . . .

The Biology program offers coursework, in conjunction with the Center for Teacher Education, leading to licensure in secondary education science. Graduates of the program can teach in the state of Colorado or use their teaching expertise in other careers. After completing foundation sciences classes in Biology, Chemistry, Physics and Geology, students choose 10 hours of upper level Biology course work, in consultation with their advisor.

The secondary licensure program provides teacher education candidates with broad content knowledge in science and prepares them as teachers for grades 7 through 12. A minimum of 75 credit hours of Essential Learning and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education secondary licensure program. Please see the Teacher Education Admission Packet for further information on admissions criteria. EDUC 115, What It Means to be an Educator, and EDUC 215, Teaching as a Profession, must be taken before applying to the program.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Utilize the scientific approach to address novel questions and problems through the development of hypotheses, design of experiments, collection of data, analysis of data, and interpretation of results. (Quantitative Fluency/Applied Learning)
2. Identify, examine, evaluate and discuss the scientific literature. (Critical Thinking)
3. Articulate biological principles and ideas effectively, both in written and oral form. (Communication Fluency)
4. Instruct students based on self-written learning plans to address individual learning and developmental patterns in the Biological Sciences. (Specialized Knowledge)
5. Design a safe and supportive learning environment for secondary education students. (Applied Learning)
6. Apply Biology content knowledge while working with learners to access information in real world settings assuring learner mastery of Biological Sciences. (Specialized Knowledge)
7. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication. (Critical Thinking/Communication Fluency)
8. Engage in meaningful and intensive professional learning and self-renewal by regularly examining practice through ongoing study, self-reflection, and collaboration. (Specialized Knowledge)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1 (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 105</td>
<td>Attributes of Living Systems-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 105L</td>
<td>Attributes of Living Systems Laboratory-GTSC1</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 32

1 6 semester hours, must receive a grade of “B” or better and must be completed by the time the student has 60 semester hours.
2 3 semester hours, must receive a grade of “C” or better, must be completed by the time the student has 60 semester hours.
3 3 credits apply to the Essential Learning requirements and one credit applies to the required related study area.
4 Must receive a grade of “B” or better.
5 7 semester hours, one course must include a lab, must be completed with a grade of “C” or better.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

(13 semester hours, must pass all courses with a grade of “C” or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121</td>
<td>Principles of Chemistry-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 121L</td>
<td>Principles of Chemistry Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 122</td>
<td>Principles of Organic Chemistry-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 122L</td>
<td>Principles of Organic Chemistry Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 13
Program Specific Degree Requirements
(40 semester hours, must pass all courses with a grade of "C" or higher and maintain a 2.80 cumulative GPA or higher in coursework in this area.)

Required for this degree:

• 2.80 cumulative GPA or higher in all CMU coursework.
• All EDUC prefix courses must be completed with a grade of B or better.
• All other coursework toward the degree must be successfully completed prior to the internship.
• A grade of C or better must be earned in all required courses, unless otherwise stated.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 106 &amp; 106L</td>
<td>Principles of Animal Biology and Principles of Animal Biology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 107 &amp; 107L</td>
<td>Principles of Plant Biology and Principles of Plant Biology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 385</td>
<td>Nature and Philosophy of Science</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 483</td>
<td>Senior Thesis</td>
<td>2</td>
</tr>
</tbody>
</table>

Required Related Study Area

One of the following sets of courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 111 &amp; 111L</td>
<td>Principles of Physical Geology-GTSC1 and Principles of Physical Geology Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 113 &amp; 113L</td>
<td>Field-Based Introduction to Physical Geology-GTSC1 and Field-Based Introduction to Physical Geology Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 112 &amp; 112L</td>
<td>Principles of Historical Geology-GTSC1 and Principles of Historical Geology Laboratory-GTSC1</td>
<td>4</td>
</tr>
</tbody>
</table>

Biology Electives

Select 8 semester hours of upper division BIOL courses: 8

Total Semester Credit Hours 40

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 1 semester hour.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select elective</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 1

Secondary Education Requirements
(29 semester hours, must pass all EDUC courses with a grade of "B" or higher.)

Program Requirements: ENGL 111, ENGL 112, PSYC 233, EDUC 115, and EDUC 215 (all with a grade of B or better) and formal acceptance to the Teacher Education Program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator (8 field experience hours)</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession (12 field experience hours)</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 342</td>
<td>Pedagogy and Assessment: Secondary and K-12 (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 343</td>
<td>Teaching to Diversity (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 442</td>
<td>Integrating Literacy Across the Curriculum: Secondary and K-12 Art (60 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 475</td>
<td>Classroom Management for K-12 Educators</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 497</td>
<td>Content Methodology Practicum (80 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 497D</td>
<td>Methods of Teaching Secondary Science</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 499G</td>
<td>Teaching Internship and Colloquia: Secondary (600 field experience hours)</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 29

1 This course is only offered in the fall semester. It may be taken with either the 300-level or 400-level EDUC courses but must be taken before the student teaching semester.

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 105 &amp; 105L</td>
<td>Attributes of Living Systems-GTSC1 and Attributes of Living Systems Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 121 &amp; 121L</td>
<td>Principles of Chemistry-GTSC1 and Principles of Chemistry Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>4</td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 106 &amp; 106L</td>
<td>Principles of Animal Biology and Principles of Animal Biology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
<td>1</td>
</tr>
</tbody>
</table>

Semester Credit Hours 16
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

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Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Biology, Liberal Arts (AS)

Degree: Associate of Science
Major: Liberal Arts
Emphasis: Biology
Program Code: 2411

About This Major . . .

The Associate of Science (A.S.) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The A.S. is the appropriate choice for students who will take upper division coursework in mathematics, biological sciences, and physical sciences. The Essential Learning requirements of this degree program meet the Colorado Statewide General Education Core and the lower division general education requirements at most public institutions in Colorado.

In the Biology Program students choose courses from four areas: cell, molecular, and developmental biology; anatomical and physiological biology; organismal biology; or ecology, evolution, and systematics. Graduates of our program with an A.S. degree may then seek to continue their education to pursue careers in teaching, plant pathology, wildlife biology, cell biology or biotechnology, among just a few of the career options, or may use their A.S. to support careers in other disciplines.
For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate a basic knowledge of the main areas of biology (including plant and animal biology, evolution, ecology, cell biology and genetics) and the ability to apply this knowledge to address new questions. (Specialized Knowledge)
2. Gather, organize and analyze scientific data and draw logical conclusions. (Critical Thinking)
3. Demonstrate effective communication skills, both in writing and orally in Biology. (Communication Fluency)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU or WCCC Associate of Science (AS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours total.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade of “C” or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado’s guaranteed transfer program.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 15 semester credit hours for an associate of science degree. A maximum of 6 of the 15 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3. 7 semester hours, one course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one Activity course

Total Semester Credit Hours  2

Program Specific Requirements

(24 semester hours, a grade of “C” or better must be earned in all courses.)

A grade of “C” or higher must be earned toward the major content area.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 105</td>
<td>Attributes of Living Systems-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 105L</td>
<td>Attributes of Living Systems Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 106</td>
<td>Principles of Animal Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 106L</td>
<td>Principles of Animal Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 107</td>
<td>Principles of Plant Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 107L</td>
<td>Principles of Plant Biology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 208</td>
<td>Fundamentals of Ecology and Evolution</td>
<td>3</td>
</tr>
</tbody>
</table>
### Required Biology Specialization Courses

Select eight semester hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 208L</td>
<td>Fundamentals of Ecology and Evolution Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 24

1 To be selected in consultation with student’s advisor.

### General Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Up to 2 Semester Hours General Electives</td>
<td>0-2</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 1-3

1 All college level courses, not listed above, that will bring your total semester hours to 60 hours. Up to three hours may be needed.

### Advising Process and DegreeWorks

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### Graduation Process

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- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

### Biology (Minor)

**Minor: Biology**

**Program Code: M400**

### About This Minor...

In the Biology Program students choose courses from four areas: cell, developmental, and molecular biology; anatomical and physiological biology; organismal biology; and ecology, evolution, and systematics. Graduates of our program with a Minor in Biology may then seek to continue their education in Biology or may use their Minor to support careers in other disciplines.

### Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total
number of credit hours for a student who has not already taken those prerequisites.
  • Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
  • At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
  • At least 25 percent of the classes must be taken at CMU.
  • 2.00 cumulative GPA or higher for the courses used for the minor.
  • A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
  • A minor must be outside the major field of study.
  • A student may earn up to five minors with any baccalaureate degree at CMU.
  • The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
  • See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Minor Requirements**

(20 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>BIOL 105</td>
<td>Attributes of Living Systems-GTSC1</td>
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</tr>
<tr>
<td>BIOL 105L</td>
<td>Attributes of Living Systems Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 106</td>
<td>Principles of Animal Biology</td>
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</tr>
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<td>BIOL 106L</td>
<td>Principles of Animal Biology Laboratory</td>
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<td>BIOL 107</td>
<td>Principles of Plant Biology</td>
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<tr>
<td>BIOL 107L</td>
<td>Principles of Plant Biology Laboratory</td>
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<tr>
<td>Choose 8 Semester Hours of BIOL courses, all of which must be upper division hours</td>
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<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 20

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
BUSINESS

(Also see Computer Information Systems (p. 262), Energy Management/Landman (p. 385), Insurance (p. 478), and Hospitality Management (p. 463))

Program Description

Bachelor of Business Administration

The Bachelor of Business Administration (BBA) degree provides an in-depth study of the many facets of business. The program’s extensive business core provides students with the knowledge, skills and abilities to compete in both local and global business environments. The business core covers functional areas of business and offers an applied approach, providing students with an opportunity to apply concepts and theories learned in class to real-life business projects. Students choose from the listed concentrations and gain additional depth in one or more areas.

The BBA is a very versatile and valuable degree. In addition to positions in corporate America, graduates hold positions in nonprofit organizations like hospitals, schools, and theaters, as well as positions in organizations ranging from entry-level manager to Chief Executive Officer. Colorado Mesa University’s BBA graduates are entrepreneurs, small business owners, bank vice-presidents, product managers in advertising firms and project and operations managers in manufacturing organizations.

BBA Special Requirements

Prior to admission, potential BBA majors will be given the classification code for “pre-BBA”. To be eligible for admission into the program, a student must meet additional requirements. Please contact the Department of Business for complete admission information.

BBA Concentrations (Students must choose at least one)

Requirements vary with the concentration selected. See program concentration options with links to program details in the Programs of Study tab and visit Degree Works for complete requirements for the major and selected concentration.

Bachelor of Applied Science

The Bachelor of Applied Science (BAS) in Business Administration combines the technical skills and business proficiency necessary for success. A unique program, the BAS degree allows students who have already earned an Associate of Applied Science (AAS) degree to build upon their technical specialties with essential learning courses and junior and senior level business courses. This allows associate degree holders to gain a 4-year degree in approximately four additional full-time semesters, depending upon prior coursework. Business courses include courses in marketing, promotion, management, accounting, finance, small business management and entrepreneurship. Upon completion of the program, students will be technically and academically prepared for leadership positions in their chosen industries. Prospective students not holding an AAS degree can begin their university career at CMU in a chosen field of study with a 2-year degree and then progress to a 4-year degree using the BAS. This degree will provide students with the ability to move into supervision/management positions.

Associate of Arts

The Associate of Arts (AA) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The Business Administration AA degree, in addition to providing students with their essential learning courses, is useful in giving students an overview of business. The AA is also an appropriate choice for students who will take upper division coursework in the arts, humanities, or social and behavioral sciences. Through the acquisition of essential learning credits, the degree also positions students for completion of a four-year degree in business. The degree includes the Colorado Statewide General Education Core and meets the lower-division general education requirements at most public institutions in Colorado.

Minors

Minors are designed to prepare non-business students with an overview of business knowledge, allowing students to combine other disciplines with necessary business skills. Four functional areas of business are covered in the minor with additional upper division courses required based upon the chosen minor.

Business Administration

The business administration minor complements many other degrees and is designed to prepare students to enter the world of business with the basic business skills needed to contribute more efficiently and effectively in the workplace. Courses in management, marketing and workplace communication provide students an opportunity to build a foundation in business. Additionally, courses in accounting, finance and computer information systems allow students to choose classes that best fit their career goals. A business administration minor coupled with a non-business major can increase the employment opportunities available in a variety of areas.

Economics

The Economics minor is designed to prepare non-business students with an overview of business knowledge, allowing students to combine other disciplines with necessary business skills. The functional areas of business are covered in the minor with additional upper division courses required based upon the chosen minor. The minor in economics is designed to prepare students with an overview of the basics of economics. Coursework includes the principle classes in macroeconomics and microeconomics, plus intermediate macroeconomics and microeconomics courses. The required coursework prepares students with the critical thinking and problem solving skills needed in today’s world, as well as the ability to apply economic rationale in the decision making process.

The Business Department also offers the Bachelor of Business Administration with a concentration in economics.

Entrepreneurship

The minor in entrepreneurship is designed to equip students with the basic knowledge and skills needed to successfully operate a small business. The entrepreneurship minor is intended for students in disciplines other than business who wish to begin small businesses in their major area. The minor will provide students with the basics needed as they face the exciting challenges of small business ownership.
The Business Department also offers the Bachelor of Business Administration with a concentration in entrepreneurship.

**Certificates**

Business certificates are designed to provide entry-level knowledge, skills and abilities in a specific area. The coursework in each of the certificates can also be used as hours toward a two-year or four-year degree in that specialization. Emphasis in each certificate is on knowledge and skill development.

**Entrepreneurship**

The certificate in entrepreneurship is designed to expose students and prospective entrepreneurs to the beginning knowledge and skills needed to examine and evaluate entrepreneurship opportunities. The certificate will provide students with an overview of business knowledge, which more fully prepares them to operate their own businesses.

**Supervision**

The certificate in supervision is designed to expose students and business managers to the knowledge and skills needed to supervise employees in the workplace. Basic supervisory skills are addressed allowing students opportunities for successful promotions to managerial positions.

**Contact Information**

Department of Business  
Dominguez Hall 301  
970.248.1778

**Associates**

- Business Administration, Liberal Arts (AA) (p. 243)

**Bachelors/Minors**

- Bachelor of Business Administration in Finance + Master of Business Administration (3+2) (p. 207)
- Business (Minor) (p. 210)
- Business Administration (BAS) (p. 208)
- Business Analytics, Business Administration (BBA) (p. 238)
- Business Economics, Business Administration (BBA) (p. 211)
- Economics (Minor) (p. 248)
- Emerging Markets, Business Administration (BBA) (p. 214)
- Energy Management/Landman, Business Administration (BBA) (p. 217)
- Entrepreneurship (Minor) (p. 248)
- Entrepreneurship, Business Administration (BBA) (p. 220)
- Finance, Business Administration (BBA) (p. 223)
- Hospitality Management, Business Administration (BBA) (p. 226)
- Human Resource Management, Business Administration (BBA) (p. 229)
- Insurance, Business Administration (BBA) (p. 232)
- Management, Business Administration (BBA) (p. 235)
- Marketing, Business Administration (BBA) (p. 241)
- Managerial Informatics (Minor) (p. 271)
- Bachelor of Science in Accounting + Master of Business Administration (3+2) (p. 132)
- Bachelor of Science in Construction Management + Master of Business Administration (3+2) (p. 286)

**Graduate**

- Business Administration (MBA) (p. 204)

**Business Administration (MBA)**

2017-2018 Program Requirements  
Degree: Master of Business Administration  
Program Code: 8100

**About This Program . . .**

The Colorado Mesa University Master of Business Administration degree is a challenging program designed to prepare graduates for the changing business world. The degree is awarded after successful completion of 36-45 semester hours of rigorous study. The program is designed to provide the student with a broad background in business while allowing the student to focus on a specified area of study, if desired. To this end, students acquire knowledge of management operations; an appreciation of the interrelationships involved in business; an understanding of the economic, political and social environment in which businesses function; and behavioral skills that are essential in the manager’s role in the implementation of business decisions. The MBA program endeavors to provide an atmosphere conducive to the development of each student’s ability to think in a creative manner and to effectively problem solve. The program makes extensive use of lectures, seminars, group projects, case studies and independent research.

An MBA student can pursue any one of several tracks. Each track has three basic components: a 24 hour core, a 6 hour research component, and 6-15 hours of additional masters level coursework consistent with a chosen track. Electives include such courses as managerial economics, entrepreneurship, management information systems. A student in the BS Concentration in Public Accounting program, the BBA Concentration in Finance program, or the BS in Construction Management program may qualify to pursue the MBA as part of a 3+2 program.

Important information about this program:

- An applicant must:
  - Possess an undergraduate degree from a regionally accredited college or university;
  - Demonstrate evidence of a strong academic background and the ability to pursue advanced study;
  - Demonstrate evidence of appropriate English, reading, and writing skills;
  - Demonstrate critical thinking skills;
  - Have earned a GPA of 3.0 or better from the most recent 60 credit hours of course work earned toward a bachelor’s degree, including required leveling courses;
• Have a cumulative 3.0 GPA or better in prior graduate work;
• Take the GRE or GMAT and have results sent to the MBA Office.
• Write a 750-word essay in APA style on an assigned, important
global business current topic, demonstrating potential for MBA-
level writing ability. The essay is written in a controlled setting.
See MBA Office to schedule.
• Provide a current resume containing a detailed work history;
• Provide two professional and/or academic recommendations;
• Interview, if required, with members of MBA Committee;
• Meet other program admission requirements as determined by
the MBA Director/Committee;
• An international student must take the TOEFL and achieve a score
of 550 or higher, and meet other requirements as specified under
International Student Admission criteria.
• An applicant must demonstrate—through academic transcripts,
CLEP or a formal test-out process—an appropriate background in
Financial Accounting, Business Information Technology, Managerial
Finance, Principles of Management, Principles of Marketing,
and Business Statistics. An applicant without this background
will be required to score at a sufficient level on an entrance
qualifying examination administered by the CMU MBA Office. The
exam will cover the topics listed above. A student can prepare
for the exam through independent study based on a program-
supplied study guide. CMU courses that provide that background
are: ACCT 201, CISB 101, FINA 301, MANG 201, MARK 231,
and CISB 241 or STAT 241. This requirement must be met prior to
acceptance to the MBA.
• 36-45 Semester Hours are required for the MBA Degree.
• No class grade lower than “B” will be counted in the degree.
• It is the student’s responsibility to read, understand, and follow all
policies and procedures in the MBA Handbook.
• Prior to completing his/her first semester or first six hours of the
program a student must file a Degree Planning Sheet with the MBA
office to delineate that student’s specific degree requirements.
• Admission to the program also follows all general admissions
policies & procedures for graduate programs outlined in the university
catalog.

All CMU master-level graduates are expected to demonstrate proficiency
in critical thinking, communication fluency, quantitative fluency, and
specialized knowledge/applied learning. In addition to these campus-
wide student learning outcomes, a Master of Business Administration
graduate will be able to:

1. Demonstrate an advanced level of analytical thinking in the functions
of business to include management, marketing, finance, accounting,
business law, organizational behavior, business strategy, and
operations management via comprehensive examinations and by
completing individual and team projects. (Specialized Knowledge/
Applied Learning)
2. Demonstrate an advanced level of analytical thinking in the functions
of business. (Quantitative Fluency)
3. Demonstrate advanced written communication skills through
presentation of literature review and original research.
4. Demonstrate advanced oral communication skills through
presentation of literature review and original research to fellow MBA
students and the business community. (Communication Fluency)
5. Demonstrate an advanced level of critical thinking in the functions
of business. (Critical Thinking)
6. Demonstrate individual skills to contribute to scholarly advancement
of business as a discipline. (Information Literacy)
7. Demonstrate an advanced level of ethical thinking in the functions
of business. (Ethical Reasoning)

Institutional Graduate Degree
Requirements

The following institutional requirements apply to all CMU graduate-level
degrees. Specific programs may have different requirements that must be
met in addition to institutional requirements.

• Graduate certificates consist of a minimum of 5 credit hours.
Master’s degrees consist of a minimum of 30 credit hours. Doctoral
degrees consist of a minimum of 60 credit hours
• All credits in a graduate program must be minimally at the 500-level.
• At least fifty percent of the credit hours must be taken at CMU.
• Students must achieve a 3.00 cumulative GPA or higher in all CMU
coursework.
• Students may not apply coursework with a grade lower than a “B”
toward graduation requirements.
• A course may only be used to fulfill one requirement for each degree/
certificate.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific
Requirements.
• The Catalog Year determines which program sheet and certificate
requirements a student must fulfill in order to graduate. Visit with
your advisor or academic department to determine which catalog
year and program requirements you should follow.
• See “Requirements for Graduate Degrees and Certificates” in the
catalog for a complete list of graduation requirements.

Program Specific Requirements

(36-45 semester hours, must pass all courses with a grade of “B” or
higher.)

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
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<td><strong>Required MBA Core Courses</strong></td>
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<tr>
<td>ACCT 500</td>
<td>Managerial Accounting</td>
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<td>BUBG 500</td>
<td>Advanced Business Law and Ethics</td>
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<td>ECON 530</td>
<td>Managerial Economics</td>
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<tr>
<td>FINA 500</td>
<td>Financial Strategy</td>
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<td>MANG 501</td>
<td>Operations Management</td>
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<td>MANG 510</td>
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<td>MANG 590</td>
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<tr>
<td>BUGB 530</td>
<td>Research Design</td>
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<tr>
<td>BUGB 595</td>
<td>Research Practicum</td>
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</tr>
<tr>
<td>BUGB 590</td>
<td>MBA Thesis I</td>
<td></td>
</tr>
</tbody>
</table>

Required MBA Core Courses

Complete one of the following options: 6-9

Option 1:

1. BUGB 530 Research Design
2. BUGB 595 Research Practicum

Option 2:

1. Research Design Course Approved by the MBA Director
2. BUGB 590 MBA Thesis I
BUGB 592  MBA Thesis II

**Track**

Select at least one of the following tracks: 6-15

**Professional Track:**
- Select six semester hours of 500-level electives from the list below or from 500-level courses in Department of Business as approved by MBA Director
- ACCT 505  Advanced Fraud and Forensic Accounting
- BUGB 510  Global Business
- BUGB 520  Seminar in Current Business Topics
- CISB 500  Management of Information Systems
- CISB 505  Advanced Project Management
- CISB 560  Electronic Commerce Systems
- ECON 505  Advanced Econometrics
- HRMA 520  Human Resource Management
- ENTR 550  Entrepreneurship
- MANG 520  Human Resource Management
- MANG 540  Advanced Quantitative Methods

**Thesis Track:**
- Select three semester hours of 500-level electives from the Professional Track electives listed above

**Management Information Systems Track:**
- CISB 500  Management of Information Systems
- CISB 505  Advanced Project Management

**Sports Management Track:**
- KINE 500  Facility and Equipment Management in Sport and Fitness
- KINE 510  Event and Program Management in Sport and Fitness

**Corporate Trainer Track:**
- EDUC 591  ITL 1: Foundations of Curriculum, Instruction, and Assessment

**Medical Informatics Track:**
- HSCI 501  Advanced Health Informatics I - Data Analysis
- HSCI 506  Advanced Health Informatics II: Project Design and Implementation
- NURS 502  Health Information Systems
- NURS 505  Quality Assessment and Improvement in Health Care Settings
- CISB 500  Management of Information Systems
- CISB 505  Advanced Project Management

**Other Requirements**

The following three items must be passed in the last spring semester:
- Written Comprehensive Exam
- Written Research Report
- Oral Research Presentation

**Total Semester Credit Hours** 36-48

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1 This track is available only to those students who are approved to do the 9-hour Thesis Research Component.

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**Bachelor Degree/MBA 3+2 Concurrent Enrollment Program**

Admission into the Bachelor Degree/MBA 3+2 Concurrent Enrollment Program is an application process, which must be approved by the MBA Program.

Admission is restricted to those students who meet the following criteria in addition to all the criteria for the MBA program.

1. Must be accepted into one of the following four-year bachelor degree programs:
   - BS in Accounting, Public Accounting Concentration
   - BBA, Finance Concentration
   - BS in Construction Management

2. Must be classified as a senior (i.e., at least 90 credit hours including hours in which student is currently enrolled and for which the student is registered for a future semester).

3. Must have completed the number of additional hours in the bachelor degree major as specified by that program's faculty

4. Must have completed or be enrolled in specific courses in the bachelor degree major as specified by that program's faculty.

5. Must have at least a 3.00 overall GPA.

6. Must have at least a 3.00 GPA in courses in the student's declared major.

7. Must submit a 3+2 Concurrent Enrollment application form to the MBA Office.

8. Must submit to the bachelor degree department representative and to the MBA Office, a program completion plan demonstrating how all remaining bachelor degree requirements and all MBA requirements will be met in two years.

9. Must provide to the MBA Office a letter of recommendation from a faculty member in the bachelor degree department.

10. Must complete the MBA Office a letter of recommendation from a faculty member in the bachelor degree department.

11. Must have met with MBA Office and have been approved for study in the 3+2 concurrent enrollment program.

After admission into the Bachelor Degree/MBA Concurrent Enrollment Program, the student:

1. Must follow the two year recommended course sequence (see below) for the MBA course component.

2. Must notify the MBA Office immediately if justifiable life circumstances do not allow the student to complete both undergraduate and graduate programs within two years of admission into the program.

3. Must complete ALL bachelor degree graduation requirements in the same semester or prior to completing all MBA graduation requirements.

4. Must submit the necessary paperwork to graduate with the bachelor degree to the Business Department with a copy to the MBA Office AND must submit the necessary paperwork to graduate with the MBA to the MBA Office. This requirement must be met before the published deadline in the semester prior to intended graduation.
### Option One

**Two Year Graduation Path, Required of 3+2 Concurrent Program Students**

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<thead>
<tr>
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<th>Title</th>
<th>Semester Credit Hours</th>
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<tr>
<td><strong>Fall Semester</strong></td>
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<td>ECON 530</td>
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<td>Course from Track</td>
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<td><strong>Spring Semester</strong></td>
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<td>FINA 500</td>
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<td>MANG 510</td>
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<td>MARK 500</td>
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<td><strong>Year Two</strong></td>
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<td><strong>Total Semester Credit Hours</strong></td>
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### Option Two

**Three Year Graduation Path, Not Available to 3+2 Concurrent Program Students**

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<tr>
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<th>Title</th>
<th>Semester Credit Hours</th>
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<td><strong>Fall Semester</strong></td>
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<td>MARK 500</td>
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<td><strong>Year Two</strong></td>
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<td><strong>Fall Semester</strong></td>
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<td>MANG 501</td>
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<td><strong>Spring Semester</strong></td>
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<td>MANG 510</td>
<td>Leading Organizations</td>
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<td></td>
<td>Course from Track</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

### Bachelor of Business Administration in Finance + Master of Business Administration (3+2)

If you have always wanted to be a Chief Financial Officer, a Financial Planner, an Industrial Broker or Investment Counselor, a degree in Finance will position you for success.

An understanding of finance not only prepares students for a variety of interesting and rewarding careers, but also equips them to make better decisions as investors throughout their lives. Virtually every business decision has financial implications and determining whether a particular
decision will likely create value or decrease it is the underlying principle of the finance discipline.

Finance graduates are sought to fill a variety of positions that include Financial Analyst, Retail Bank Manager, Cash Manager, Trust Officer, Credit Analyst, Financial Planner, Loan Officer, Real Estate Appraiser, Stockbroker, Insurance Agent, Portfolio Manager, Underwriter, Mortgage Banker, or Pension Fund Manager, to name a few.

For more information about the finance degree, please see (Bachelor of Business Administration and Finance Degree Information). (https://www.coloradomesa.edu/business/degrees/business-administration.html)

This program is also the undergraduate component of the 3+2 program, in which students can earn a Bachelor of Business Administration with a Finance Concentration and a Master of Business Administration (MBA, as described below) in five years. Through careful planning and coordination students can complete their four-year degree and their graduate degree simultaneously. For more information please see 3 + 2 MBA Program Information (https://www.coloradomesa.edu/business/degrees/mba/3+2-program-.html).

The Colorado Mesa University Master of Business Administration (MBA) degree is a challenging program designed to prepare graduates for the changing business world. The degree is awarded after successful completion of 36-45 semester hours of rigorous study. The program is designed to provide the student with a broad background in business while allowing the student to focus on a specified area of study, if desired. To this end, students acquire knowledge of management operations; an appreciation of the interrelationships involved in business; an understanding of the economic, political and social environment in which businesses function; and behavioral skills that are essential in the manager's role in the implementation of business decisions. The MBA program endeavors to provide an atmosphere conducive to the development of each student's ability to think in a creative manner and to effectively problem solve. The program makes extensive use of lectures, seminars, group projects, case studies and independent research. More information about our MBA Program can be found at MBA Program Information (https://www.coloradomesa.edu/business/degrees/mba).

Business Administration (BAS)
Degree: Bachelor of Applied Science
Major: Business Administration
Program Code: 3170

About This Major . . .
The Bachelor of Applied Science in Business Administration combines the technical skills and business proficiency necessary for success in today's business world. A unique program, the BAS allows students who have already earned an associate of applied science degree to build upon their technical specialties with Essential Learning courses and junior and senior level business courses. This allows associate degree holders to gain a 4-year degree in approximately four additional full-time semesters, depending upon prior coursework.

Business courses to be taken include courses in marketing, promotion, management, accounting, finance, small business management and entrepreneurship. Upon completion of the program, students will be technically and academically prepared for leadership positions in their chosen industries.

Prospective students not holding an associate of applied science degree can begin their college career at CMU in a chosen field of study with a 2-year degree and then progress to a 4-year degree using the BAS. This degree will provide students upward mobility in their area of employment as they move into supervision/management positions.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/business/whatmajor.html.

Formal admission to a BAS program requires completion of the appropriate AAS degree from an accredited institution. Any exceptions to this must be approved in advance by the department BAS advisor and the academic department head. All students must meet with the BAS advisor to plan and schedule all classes.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Integrate knowledge from multiple functional areas of business to solve business problems and to develop sound business strategies. (Specialized Knowledge)
2. Apply business knowledge and skills in appropriate business contexts and transfer knowledge and skills to new business situations. (Critical Thinking)
3. Communicate clearly, appropriately, and persuasively to the business audience, both orally and in writing, including individual presentations. (Communication Fluency)
4. Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
5. Effectively work as a team. (Applied Learning)
7. Produce professional business work products. (Applied Learning)
8. Practice principle-based ethics in decision making both personally and professionally. (Applied Learning)
9. Apply management principles to optimize organizational resources. (Specialized Knowledge)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU Bachelor of Applied Science (BAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 33 upper-division credits.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/ certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>English 1</td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1 (or higher) 2</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Select one Natural Sciences course with a lab</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 31

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.

2 This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to general elective credit.

General Electives

All college level courses appearing on final transcript, not listed above to bring total semester hours to 120 and total upper-division hours to 33.

Select additional electives 10

Total Semester Credit Hours 11

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around.
Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audits on a regular basis and should discuss questions or concerns with their advisors or academic department heads. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Business (Minor)

Minor: Business
Program Code: M130

About This Minor . . .

The minor in Business is designed to prepare students to enter the world of business with the basic business skills needed to contribute more efficiently and effectively in their place of work. A foundation in accounting, management, marketing and workplace communication, provides students an opportunity to build a foundation in business. Additionally, courses in management, marketing, accounting, finance, and computer information systems allow students to choose classes that best fit their program goals. A business minor coupled with a non-business major can increase the employment opportunities available in a variety of areas.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(24 semester hours)

- Before entering the minor in Business, students are presumed to have basic communication and computer literacy, including working knowledge or word processing and spreadsheet software. Students lacking this basic knowledge are responsible for attaining it through coursework, tutorials, or workshops.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>or MANG 410</td>
<td>Effective Workplace Communication</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Select four courses of the following: 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
</tr>
<tr>
<td>BUGB 231</td>
<td>Survey of Business Law</td>
</tr>
<tr>
<td>CISB 305</td>
<td>Solving Problems Using Spreadsheets 2</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
</tr>
<tr>
<td>ENTR 300</td>
<td>Small Business and Entrepreneurship</td>
</tr>
<tr>
<td>ENTR 450</td>
<td>Entrepreneurship 2</td>
</tr>
<tr>
<td>FINA 301</td>
<td>Managerial Finance 2</td>
</tr>
<tr>
<td>HRMA 371</td>
<td>Human Resource Management</td>
</tr>
<tr>
<td>MANG 301</td>
<td>Organizational Behavior</td>
</tr>
<tr>
<td>MANG 410</td>
<td>Effective Workplace Communication</td>
</tr>
<tr>
<td>MARK 325</td>
<td>Consumer Behavior</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 24

1 At least two, and in some cases three courses, must be upper division. If a student takes BUGB 211 rather than MANG 410, then the student must take three upper-division courses in the choices listed above.

2 Requires additional course prerequisites beyond those required for the Minor.
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their minors and majors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Business Economics, Business Administration (BBA)

Degree: Bachelor of Business Administration
Major: Business Administration
Concentration: Business Economics
Program Code: 3122

About This Major . . .

The Bachelor of Business Administration (BBA) is designed to prepare students for the challenges of today’s organizations, as well as, the business world of tomorrow. The program provides students with the knowledge, skills and abilities to compete in both local and global business environments. Additionally, the program allows for an emphasis in a specialized area such as management, marketing, finance, economics, or hospitality management.

The BBA is a very versatile, flexible and valuable degree. Colorado Mesa’s BBA graduates have the ability to earn advanced degrees in business such as the Master of Business Administration – one of the most sought after degrees by employers in today’s job market.

Economists are called upon for a variety of tasks including economic analysis of the overall economy as well as a data collection, research analysis, forecasting, planning and consulting. The ability to make decisions at the macroeconomic level as well as use economic modeling tools make this concentration valuable for all industries as well as local, state and federal government entities. The increased emphasis on analytical, quantitative and technology skills sets this concentration apart.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

To be admitted to the Bachelor of Business Administration program, certain prerequisites must be satisfied. Please see the Department Head for Business for complete requirements and application form.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, students in this major complete a plan of study that fulfills our department mission and requires demonstrated comprehension of program specific learning outcomes. These are as follows:

Mission: As a student-focused teaching and research department, Colorado Mesa University’s Business Department prepares students to be sound decision makers and serves businesses in the Rocky Mountain region, the nation, and the world. We strive to develop prepared students who demonstrate strong ethical principles, superior critical thinking, effective communication, and robust business acumen.

Student Learning Outcomes

SLO #1: Critical Thinking/Problem Solving Skills:

- 1.1 - Apply business knowledge and skills in appropriate business contexts (Critical Thinking)
- 1.2 - Transfer knowledge and skills to new business situations. (Critical Thinking)
- 1.3 - Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
- 1.4 - Analyze business data critically, reason logically, and apply qualitative analysis methods correctly to develop appropriate business conclusions. (Critical Thinking)

SLO #2: Effective Communication Skills:

- 2.1 - Communicate clearly, appropriately, and persuasively to the audience in writing. (Communication Fluency)
- 2.2 - Communicate clearly, appropriately, and persuasively to the audience orally (Communication Fluency)

SLO #3: Teamwork:

- 3.1 - Demonstrate an understanding of the role of teams in organizations (Specialized Knowledge/Applied Learning)
- 3.2 - Demonstrate behaviors consistent with effective teamwork (Specialized Knowledge/Applied Learning)

SLO #4: Ethical Awareness:

- 4.1 – Analyze an issue within an ethical framework (Specialized Knowledge/Applied Learning)
- 4.2 – Recommend a solution based on an ethical framework (Specialized Knowledge/Applied Learning)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.
• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 121</td>
<td>Calculus for Business</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one History course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Humanities course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Fine Arts course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Select one Natural Sciences course with a lab 4  
Total Semester Credit Hours 31

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wellness Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning Capstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

**Foundation Courses**

(21 semester hours. These courses plus Essential Learning Math & English requirements must be completed within the student’s first 60 hours.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 231</td>
<td>Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CISB 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 241</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

**Program Specific Degree Requirements**

(45 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Administration Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BUGB 401</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>CISB 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>FINA 301</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 301</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HRMA 371</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
</tbody>
</table>
General Electives
(17 semester hours) It is strongly recommended to meet with a Business Advisor to choose electives that complement the nucleus or choose the nucleus of a second concentration. At least four hours must be upper division. Also include all college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic
department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Emerging Markets, Business Administration (BBA)
Degree: Bachelor of Business Administration
Major: Business Administration
Concentration: Emerging Markets
Program Code: 3172

About This Major . . .
The Bachelor of Business Administration (BBA) is designed to prepare students for the challenges of today’s organizations, as well as the business world of tomorrow. The program provides students with the knowledge, skills, and abilities to compete in both the local and global business environments. Additionally, the program allows for an emphasis in a specialized area such as management, marketing, finance, economics, entrepreneurship, insurance, energy management or hospitality management. The BBA degree can be applied in various fields such as medicine, the arts, sports, and education. In addition to positions in corporate America, nonprofit organizations like hospitals, school systems, and theatres also require people with business training and skills. Graduates of BBA programs hold positions in organizations from entry level manager to chief executive officer.

Colorado Mesa’s BBA graduates are entrepreneurs, small business owners, bank vice-presidents, product managers in advertising firms and project and operations managers in manufacturing organizations. The BBA is a very versatile, flexible and valuable degree. Colorado Mesa BBA graduates have great success stories in the business world as well as the ability to earn advanced degrees in business such as the Master of Business Administration – one of the most sought after degrees by employers in today’s job market.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

To be admitted to the Bachelor of Business Administration program, certain prerequisites must be satisfied. Please see the Department Head of Business for complete requirements and application form.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, students in this major complete a plan of study that fulfills our department mission and requires demonstrated comprehension of program specific learning outcomes. These are as follows:

Mission: As a student-focused teaching and research department, Colorado Mesa University’s Business Department prepares students to be sound decision makers and serves businesses in the Rocky Mountain region, the nation, and the world. We strive to develop prepared students who demonstrate strong ethical principles, superior critical thinking, effective communication, and robust business acumen.

Student Learning Outcomes

SLO #1: Critical Thinking/Problem Solving Skills:
- 1.1 - Apply business knowledge and skills in appropriate business contexts (Critical Thinking)
- 1.2 - Transfer knowledge and skills to new business situations. (Critical Thinking)
- 1.3 - Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
- 1.4 - Analyze business data critically, reason logically, and apply qualitative analysis methods correctly to develop appropriate business conclusions. (Critical Thinking)

SLO #2: Effective Communication Skills:
- 2.1 - Communicate clearly, appropriately, and persuasively to the audience in writing. (Communication Fluency)
- 2.2 - Communicate clearly, appropriately, and persuasively to the audience orally (Communication Fluency)

SLO #3: Teamwork:
- 3.1 - Demonstrate an understanding of the role of teams in organizations (Specialized Knowledge/Applied Learning)
- 3.2 - Demonstrate behaviors consistent with effective teamwork (Specialized Knowledge/Applied Learning)

SLO #4: Ethical Awareness:
- 4.1 – Analyze an issue within an ethical framework (Specialized Knowledge/Applied Learning)
- 4.2 – Recommend a solution based on an ethical framework (Specialized Knowledge/Applied Learning)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.
● 120 semester hours minimum.
● Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
● 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
● 2.00 cumulative GPA or higher in all CMU coursework.
● A course may only be used to fulfill one requirement for each degree/certificate.
● No more than six semester hours of independent study courses can be used toward the degree.
● Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
● Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
● Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
● The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
● See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
</tbody>
</table>

History
Select one History course

Humanities
Select one Humanities course

Social and Behavioral Sciences
Select one Social and Behavioral Sciences course

Fine Arts
Select one Fine Arts course

Natural Sciences 3
Select one Natural Sciences course

Select one Natural Sciences course with a lab 4

Total Semester Credit Hours 31

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2 This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3 7 semester hours, one course must include a lab.

Other Lower Division Requirements

Wellness Requirement
KINE 100 Health and Wellness 1
Select one Activity course 1

Essential Learning Capstone 1
ESSL 290 Maverick Milestone 3
ESSL 200 Essential Speech 1

Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(21 semester hours. These courses plus Essential Learning Math & English requirements must be completed within the student’s first 60 hours.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUGB</td>
<td>Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 21

Program Specific Degree Requirements
(45 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUGB</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>FINA</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MANG</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
</tbody>
</table>
MANG 301 Organizational Behavior 3
HRMA 371 Human Resource Management 3
MANG 471 Operations Management 3
MANG 491 Business Strategy 3
MARK 231 Principles of Marketing 3
One of the following courses: 3
  CISB 341 Quantitative Decision Making
  MARK 350 Marketing Research

Emerging Markets Nucleus
BUGB 435 Emerging Markets 3
CISB 460 Electronic Commerce Systems 3
ECON 420 International Economics 3
FINA 431 International Financial Management 3
HMGT 211 Travel Destinations 3

Total Semester Credit Hours 45

General Electives
(17 semester hours) It is strongly recommended to meet with a Business Advisor to choose electives that complement the nucleus or choose the nucleus of a second concentration. At least seven hours must be upper division. Also include all college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td>Select additional electives</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>17</td>
<td></td>
</tr>
</tbody>
</table>

Course Title Semester Credit Hours

First Year
Fall Semester
Essential Learning - Social and Behavioral Sciences 3
Essential Learning - Social and Behavioral Sciences 3
Essential Learning - Fine Arts 3
ENGL 111 English Composition-GTOC1 3
MATH 113 College Algebra-GTMA1 4

Spring Semester
ENGL 112 English Composition-GTOC2 3
CISB 241 or STAT 241 Introduction to Business Analysis or Introduction to Business Analysis 3
CISB 210 Fundamentals of Information Systems 3
Essential Learning - Natural Science with Lab 4
KINE 100 Health and Wellness 1
KINA Activity 1

Second Year
Fall Semester
ACCT 201 Principles of Financial Accounting 3
ECON 201 Principles of Macroeconomics-GTSS1 3
BUGB 211 Business Communications 3
BUGB 231 Survey of Business Law 3

Advising Process and DegreeWorks
Documented on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.
Graduation Process
Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Energy Management/Landman, Business Administration (BBA)
Degree: Bachelor of Business Administration
Major: Business Administration
Concentration: Energy Management/Landman
Program Code: 3118

About This Major . . .
The Bachelor of Business Administration (BBA) is designed to prepare students for the challenges of today’s organizations, as well as the business world of tomorrow. The program provides students with the knowledge, skills and abilities to compete in both the local and global business environments. Additionally, the program offers many concentrations to choose from: Business Economics; Entrepreneurship; Finance; Hospitality Management; Human Resource Management; Information Systems; Insurance; Energy Management/Landman; Managerial Informatics; Management; and Marketing.

The BBA is a very versatile, flexible and valuable degree. Colorado Mesa’s BBA graduates have great success stories in the business world as well as the ability to earn advanced degrees in business such as the Master of Business Administration – one of the most sought after degrees by employers in today’s job market.

Energy Management/Landman professionals provide expertise for energy companies including oil, gas and alternative energy sources, such as solar and wind. These students work both with landowners to acquire or obtain rights to land usage as well as with companies providing expertise in managing the complexities of the energy industry. Job opportunities abound in the energy industry, not only in the United States but also around the world as students in this concentration help provide solutions to the growing world demand for energy.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

To be admitted to the Bachelor of Business Administration program, certain prerequisites must be satisfied. Please see the Department Head of Business for complete requirements and application form.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, students in this major complete a plan of study that fulfills our department mission and requires demonstrated comprehension of program specific learning outcomes. These are as follows:

Mission: As a student-focused teaching and research department, Colorado Mesa University’s Business Department prepares students to be sound decision makers and serves businesses in the Rocky Mountain region, the nation, and the world. We strive to develop prepared students who demonstrate strong ethical principles, superior critical thinking, effective communication, and robust business acumen.

Student Learning Outcomes
SLO #1: Critical Thinking/Problem Solving Skills:
- 1.1 - Apply business knowledge and skills in appropriate business contexts (Critical Thinking)
- 1.2 - Transfer knowledge and skills to new business situations. (Critical Thinking)
- 1.3 - Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
- 1.4 - Analyze business data critically, reason logically, and apply qualitative analysis methods correctly to develop appropriate business conclusions. (Critical Thinking)

SLO #2: Effective Communication Skills:
- 2.1 - Communicate clearly, appropriately, and persuasively to the audience in writing. (Communication Fluency)
- 2.2 - Communicate clearly, appropriately, and persuasively to the audience orally. (Communication Fluency)

SLO #3: Teamwork:
- 3.1 - Demonstrate an understanding of the role of teams in organizations (Specialized Knowledge/Applied Learning)
- 3.2 - Demonstrate behaviors consistent with effective teamwork (Specialized Knowledge/Applied Learning)

SLO #4: Ethical Awareness:
- 4.1 – Analyze an issue within an ethical framework (Specialized Knowledge/Applied Learning)
- 4.2 – Recommend a solution based on an ethical framework (Specialized Knowledge/Applied Learning)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH</td>
<td>College Algebra-GTMA1 (or higher)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Mathematics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Humanities course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences Course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Fine Arts course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>GEOL 111 Principles of Physical Geology-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GEOL 111L Principles of Physical Geology Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>32</td>
</tr>
</tbody>
</table>

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.

2 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.

Other Lower Division Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td>ESSL</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(21 semester hours. These courses plus Essential Learning Math & English requirements must be completed within the student’s first 60 hours.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUGB</td>
<td>Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>21</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements
(60 semester hours, must maintain a 2.0 cumulative GPA or higher in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BBUG</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>FINA</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MANG</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HRMA</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MARK</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>One of the following courses:</td>
<td></td>
</tr>
</tbody>
</table>

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
CISB 341  Quantitative Decision Making
MARK 350  Marketing Research

**Energy Management/Landman Concentration Courses**
MANG 410  Effective Workplace Communication 3
EMGT 101  Energy Management Fundamentals 1 3
EMGT 201  Land Management Fundamentals 1 3
EMGT 350  Energy Development, Transportation, and Markets 3
EMGT 355  Landman Geo-Petro-Engineering 3
EMGT 360  Real Property, Oil and Gas Law 3
EMGT 410  Energy Regulation and Compliance 3
EMGT 440  Energy Land Practices I 3
EMGT 450  Energy Land Practices II 3
EMGT 494  Energy Senior Seminar 3

Total Semester Credit Hours 60

1 Consult with EMGT advisor for possibility of substituting another business course for this one if you possess equivalent work experience.

**General Electives**
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 2 semester hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td>Select additional elective hour</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

**Course** | **Title**                                | **Semester Credit Hours** |
|----------|------------------------------------------|---------------------------|

**First Year**

**Fall Semester**
Essential Learning - Social and Behavioral Sciences 3
Essential Learning - Social and Behavioral Sciences 3
ENGL 111  English Composition-GTCO1 3
MATH 113  College Algebra-GTMA1 4
EMGT 101  Energy Management Fundamentals 3

Spring Semester
ENGL 112  English Composition-GTCO2 3
CISB 210  Fundamentals of Information Systems 3
GEOL 111  Principles of Physical Geology-GTSC1 3
GEOL 111L  Principles of Physical Geology Laboratory-GTSC1 1
Essential Learning - Humanities 3
KINE 100  Health and Wellness 1
KINA Activity 1

| Semester Credit Hours | 16 |

**Second Year**

**Fall Semester**
ACCT 201  Principles of Financial Accounting 3
ECON 201  Principles of Macroeconomics-GTSS1 3
BUGB 211  Business Communications 3
BUGB 231  Survey of Business Law 3
EMGT 201  Land Management Fundamentals 3

Spring Semester
EMGT 350  Energy Development, Transportation, and Markets 3
EMGT 360  Real Property, Oil and Gas Law 3
Essential Learning - History 3
FINA 301  Managerial Finance 3
MANG 301  Organizational Behavior 3

| Semester Credit Hours | 15 |

**Third Year**

**Fall Semester**
Essential Learning - Fine Arts 3
EMGT 355  Landman Geo-Petro-Engineering 3
MARK 231  Principles of Marketing 3
CISB 341  Quantitative Decision Making 3
or MARK 350  Marketing Research 3

| Semester Credit Hours | 15 |

**Fourth Year**

**Fall Semester**
EMGT 440  Energy Land Practices I 3
EMGT 410  Energy Regulation and Compliance 3
HRMA 371  Human Resource Management 3
MANG 471  Operations Management 3
General Elective 1

| Semester Credit Hours | 13 |

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUGC 401</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>MANG 491</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MANG 410</td>
<td>Effective Workplace Communication</td>
<td>3</td>
</tr>
<tr>
<td>EMGT 450</td>
<td>Energy Land Practices II</td>
<td>3</td>
</tr>
<tr>
<td>EMGT 494</td>
<td>Energy Senior Seminar</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.
Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Entrepreneurship, Business Administration (BBA)

Degree: Bachelor of Business Administration
Major: Business Administration
Concentration: Entrepreneurship
Program Code: 3119

About This Major . . .

The Bachelor of Business Administration (BBA) is designed to prepare students for the challenges of today’s organizations, as well as, the business world of tomorrow. The program provides students with the knowledge, skills and abilities to compete in both local and global business environments. Additionally, the program allows for an emphasis in a specialized area such as management, insurance, human resource management, marketing, finance, economics, and hospitality management.

The BBA is a very versatile, flexible and valuable degree. Colorado Mesa’s BBA graduates have the ability to earn advanced degrees in business such as the Master of Business Administration – one of the most sought after degrees by employers in today’s job market. Small business is a major economic driver of the economy and a concentration in entrepreneurship can provide the knowledge and skills necessary to successfully run a small business. Coursework that provides opportunities to work with local small business owners provides valuable lessons in the reality of operating a small business in today’s economy.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

To be admitted to the Bachelor of Business Administration program, certain prerequisites must be satisfied. Please see the Department Head of Business for complete requirements and application form.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, students in this major complete a plan of study that fulfills our department mission and requires demonstrated comprehension of program specific learning outcomes. These are as follows:

Mission: As a student-focused teaching and research department, Colorado Mesa University’s Business Department prepares students to be sound decision makers and serves businesses in the Rocky Mountain region, the nation, and the world. We strive to develop prepared students who demonstrate strong ethical principles, superior critical thinking, effective communication, and robust business acumen.

Student Learning Outcomes

SLO #1: Critical Thinking/Problem Solving Skills:

- 1.1 - Apply business knowledge and skills in appropriate business contexts (Critical Thinking)
- 1.2 - Transfer knowledge and skills to new business situations. (Critical Thinking)
- 1.3 - Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
- 1.4 - Analyze business data critically, reason logically, and apply qualitative analysis methods correctly to develop appropriate business conclusions. (Critical Thinking)

SLO #2: Effective Communication Skills:

- 2.1 - Communicate clearly, appropriately, and persuasively to the audience in writing. (Communication Fluency)
- 2.2 - Communicate clearly, appropriately, and persuasively to the audience orally (Communication Fluency)

SLO #3: Teamwork:

- 3.1 - Demonstrate an understanding of the role of teams in organizations (Specialized Knowledge/Applied Learning)
- 3.2 - Demonstrate behaviors consistent with effective teamwork (Specialized Knowledge/Applied Learning)

SLO #4: Ethical Awareness:

- 4.1 – Analyze an issue within an ethical framework (Specialized Knowledge/Applied Learning)
- 4.2 – Recommend a solution based on an ethical framework (Specialized Knowledge/Applied Learning)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.

• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.

• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.

• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics

History
Select one History course 3

Humanities
Select one Humanities course 3

Social and Behavioral Sciences
Select one Social and Behavioral Sciences course 3

Select one Social and Behavioral Sciences course 3

Fine Arts
Select one Fine Arts course 3

Natural Sciences
Select one Natural Sciences course 3

Select one Natural Sciences course with a lab 4

Total Semester Credit Hours 31

1. Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.

2. This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.

3. 7 semester hours, one course must include a lab.

Other Lower Division Requirements

Wellness Requirement

KINE 100 Health and Wellness 1

Select one Activity course 1

Essential Learning Capstone

ESSL 290 Maverick Milestone 3

ESSL 200 Essential Speech 1

Total Semester Credit Hours 6

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(21 semester hours. These courses plus Essential Learning Math & English requirements must be completed within the student’s first 60 hours.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
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</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
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<td>BUGB 231</td>
<td>Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CISB 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or STAT 241 Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
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</tbody>
</table>

Total Semester Credit Hours 21

Program Specific Requirements
(45 semester hours, must maintain 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUGB 401</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>CISB 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>FINA 301</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 301</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HRMA 371</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 471</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 491</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>CISB 341</td>
<td>Quantitative Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>MARK 350</td>
<td>Marketing Research</td>
<td>3</td>
</tr>
</tbody>
</table>
### Entrepreneurship Nucleus

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ENTR 300</td>
<td>Small Business and Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 350</td>
<td>The Entrepreneurial Mindset</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 401</td>
<td>Entrepreneurial Finance</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 450</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 343</td>
<td>Exploring Entrepreneur Opportunities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or MANG 401 Strategic Consulting</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 45

### General Electives

(17 semester hours)

It is strongly recommended to meet with a Business Advisor to choose electives that complement the nucleus or choose the nucleus of a second concentration. At least four hours must be upper division.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
</tbody>
</table>

Select additional electives: 16

Total Semester Credit Hours: 17

1. Also include all college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.

### Course Title List

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
</tbody>
</table>

Spring Semester |                                             |                       |
| ENGL 112    | English Composition-GTCO2                  | 3                     |
| CISB 241    | Introduction to Business Analysis          | 3                     |
| or STAT 241 | or Introduction to Business Analysis        |                       |
| CISB 210    | Fundamentals of Information Systems         | 3                     |
| Essential Learning - Natural Science with Lab        | 4                     |
| KINE 100    | Health and Wellness                       | 1                     |
| KINA Activity |                                              |                       |

Total Semester Credit Hours: 16

Second Year |                                              |                       |

Fall Semester |                                              |                       |
| ACCT 201    | Principles of Financial Accounting           | 3                     |
| ECON 201    | Principles of Macroeconomics-GTSS1          | 3                     |
| BUGB 211    | Business Communications                      | 3                     |
| BUGB 231    | Survey of Business Law                      | 3                     |
| Essential Learning - History                        | 3                     |

Spring Semester |                                             |                       |
| ECON 202    | Principles of Microeconomics-GTSS1          | 3                     |
| ACCT 202    | Principles of Managerial Accounting         | 3                     |
| MANG 201    | Principles of Management                    | 3                     |
| ESSL 290    | Maverick Milestone                          | 3                     |

| ESSL 200  | Essential Speech                           | 1                     |
| Essential Learning - Humanities                   | 3                     |

Third Year |                                              |                       |

Fall Semester |                                              |                       |
| MARK 231   | Principles of Marketing                     | 3                     |
| HRMA 371   | Human Resource Management                   | 3                     |
| MANG 301   | Organizational Behavior                     | 3                     |
| CISB 341   | Quantitative Decision Making                | 3                     |
| or MARK 350| or Marketing Research                       |                       |
| ENTR 343   | Exploring Entrepreneur Opportunities        | 3                     |
| or MANG 401| or Strategic Consulting                     |                       |

Spring Semester |                                              |                       |
| ENTR 300    | Small Business and Entrepreneurship         | 3                     |
| Essential Learning - Natural Science               | 3                     |
| FINA 301    | Managerial Finance                          | 3                     |
| ENTR 401    | Entrepreneurial Finance                     | 3                     |

General Elective |                                              | 3                     |

Total Semester Credit Hours: 16

Fourth Year |                                              |                       |

Fall Semester |                                              |                       |
| ENTR 350    | The Entrepreneurial Mindset                  | 3                     |
| BUGB 401    | International Business                       | 3                     |
| MANG 471    | Operations Management                        | 3                     |
| General Electives (2 courses)                     | 6                     |

Spring Semester |                                              |                       |
| ENTR 450    | Entrepreneurship                            | 3                     |
| MANG 491    | Business Strategy                           | 3                     |
| General Electives (2 courses)                     | 6                     |
| Elective    |                                              | 1                     |

Total Semester Credit Hours: 13

| Total Semester Credit Hours | 120 |

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

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### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Finance, Business Administration (BBA)

Degree: Bachelor of Business Administration
Major: Business Administration
Concentration: Finance
Program Code: 3125

About This Major . . .

The Bachelor of Business Administration (BBA) is designed to prepare students for the challenges of today’s organizations, as well as the business world of tomorrow. The program provides students with the knowledge, skills and abilities to compete in both local and global business environments. Additionally, the program allows for an emphasis in a specialized area such as management, marketing, finance, economics, entrepreneurship, energy management, insurance, landman/energy management and hospitality management.

The BBA is a very versatile, flexible and valuable degree. Colorado Mesa’s BBA graduates have great success stories in the business world as well as the ability to earn advanced degrees in business such as the Master of Business Administration – one of the most sought after degrees by employers in today’s job market.

Opportunities for students with a finance concentration include both large and small businesses, government entities, schools and universities, health care, non-profit organizations and individuals. Finance professionals become critical participants not only in day-to-day decision making but also in planning financial strategies to grow a business into the future. Finance professionals also assist people in developing sound personal financial strategies. Finance plays a critical role not only in business but also for each of us personally.

There is also an option of a five year (3+2) program to allow a student to graduate with the BBA in Finance and the Master of Business Administration (MBA). It is intended to assist students to prepare to take the Certified Financial Analyst exam. See the MBA Director for more information.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

To be admitted to the Bachelor of Business Administration program, certain prerequisites must be satisfied. Please see the Department Head of Business for complete requirements and application form.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, students in this major complete a plan of study that fulfills our department mission and requires demonstrated comprehension of program specific learning outcomes. These are as follows:

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Student Learning Outcomes

SLO #1: Critical Thinking/Problem Solving Skills:
• 1.1 - Apply business knowledge and skills in appropriate business contexts (Critical Thinking)
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SLO #2: Effective Communication Skills:
• 2.1 - Communicate clearly, appropriately, and persuasively to the audience in writing. (Communication Fluency)
• 2.2 - Communicate clearly, appropriately, and persuasively to the audience orally. (Communication Fluency)

SLO #3: Teamwork:
• 3.1 - Demonstrate an understanding of the role of teams in organizations (Specialized Knowledge/Applied Learning)
• 3.2 - Demonstrate behaviors consistent with effective teamwork (Specialized Knowledge/Applied Learning)

SLO #4: Ethical Awareness:
• 4.1 – Analyze an issue within an ethical framework (Specialized Knowledge/Applied Learning)
• 4.2 – Recommend a solution based on an ethical framework (Specialized Knowledge/Applied Learning)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

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• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
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• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

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<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 121</td>
<td>Calculus for Business</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
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<td>Survey of Business Law</td>
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<td>CISB 241</td>
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<td>CISB 341</td>
<td>Quantitative Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Other Lower Division Requirements

Wellness Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

Essential Learning Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

(21 semester hours. These courses plus Essential Learning Math & English requirements must be completed within the student’s first 60 hours.)

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<td>ECON 202</td>
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<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 21

Program Specific Degree Requirements

(45 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
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<tr>
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</tr>
<tr>
<td>MANG 301</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HRMA 371</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 471</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 491</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>CISB 341</td>
<td>Quantitative Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>MARK 350</td>
<td>Marketing Research</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.
### Finance Nucleus
- FINA 320: Fundamentals of Investments 3
- FINA 420: Security Analysis and Portfolio Management 3
- FINA 431: International Financial Management 3
- MARK 335: Sales and Sales Management 3

**Total Semester Credit Hours**: 45

### General Electives
(17 semester hours) It is strongly recommended to meet with a Business Advisor to choose electives that complement the nucleus or choose the nucleus of a second concentration. At least four hours must be upper division. Also include all college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
<td>17</td>
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</table>

### First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGL 111: English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 121: Calculus for Business (or higher)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Sum</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>Spring Semester</td>
<td>ENGL 112: English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CISB/STAT 241: Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CISB 210: Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science with Lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>KINE 100: Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>KINA Activity</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Sum</strong></td>
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</table>

### Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>ACCT 201: Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECON 201: Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUGB 211: Business Communications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUGB 231: Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Sum</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>Spring Semester</td>
<td>ACCT 202: Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECON 202: Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MANG 201: Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ESSL 290: Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ESSL 200: Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Sum</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

### Third Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>MARK 231: Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FINA 301: Managerial Finance</td>
<td>3</td>
</tr>
</tbody>
</table>

### Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>MANG 471: Operations Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUGB 401: International Business</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FINA 320: Fundamentals of Investments</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FINA 431: International Financial Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Sum</strong></td>
<td><strong>15</strong></td>
</tr>
<tr>
<td>Spring Semester</td>
<td>FINA 451: Financial Management: Theory and Applications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FINA 420: Security Analysis and Portfolio Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MANG 491: Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Sum</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**: 120

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.
Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

### Hospitality Management, Business Administration (BBA)

Degree: Bachelor of Business Administration  
Major: Business Administration  
Concentration: Hospitality Management  
Program Code: 3171

### About This Major . . .

The Bachelor of Business Administration (BBA) is designed to prepare students for the challenges of today’s organizations, as well as the business world of tomorrow. The BBA with a concentration in Hospitality Management combines the technical skills and business proficiency necessary for success in today’s business world. Business courses to be taken include courses in marketing, promotion, management, accounting, finance, small business management, and entrepreneurship.

The BBA is a very versatile, flexible and valuable degree. Many of Colorado Mesa’s BBA graduates have gone on to earn advanced degrees in business such as the Master of Business Administration – one of the most sought after degrees by employers in today’s job market.

Potential employment opportunities with this 4-year degree include management in any of the following areas: resort and hotel management, food and beverage management, travel and tourism management, health care and education food service management, etc. With the ever-expanding world hospitality market, this degree has endless opportunities both within the United States and also in the every-growing global hospitality industry.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

To be admitted to the Bachelor of Business Administration program, certain prerequisites must be satisfied. Please see the Department Head of Business for complete requirements and application form.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, students in this major complete a plan of study that fulfills our department mission and requires demonstrated comprehension of program specific learning outcomes. These are as follows:

**Mission:** As a student-focused teaching and research department, Colorado Mesa University’s Business Department prepares students to be sound decision makers and serves businesses in the Rocky Mountain region, the nation, and the world. We strive to develop prepared students who demonstrate strong ethical principles, superior critical thinking, effective communication, and robust business acumen.

### Student Learning Outcomes

#### SLO #1: Critical Thinking/Problem Solving Skills:

- 1.1 - Apply business knowledge and skills in appropriate business contexts (Critical Thinking)
- 1.2 - Transfer knowledge and skills to new business situations. (Critical Thinking)
- 1.3 - Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
- 1.4 - Analyze business data critically, reason logically, and apply qualitative analysis methods correctly to develop appropriate business conclusions. (Critical Thinking)

#### SLO #2: Effective Communication Skills:

- 2.1 - Communicate clearly, appropriately, and persuasively to the audience in writing. (Communication Fluency)
- 2.2 - Communicate clearly, appropriately, and persuasively to the audience orally (Communication Fluency)

#### SLO #3: Teamwork:

- 3.1 - Demonstrate an understanding of the role of teams in organizations (Specialized Knowledge/Applied Learning)
- 3.2 - Demonstrate behaviors consistent with effective teamwork (Specialized Knowledge/Applied Learning)

#### SLO #4: Ethical Awareness:

- 4.1 - Analyze an issue within an ethical framework (Specialized Knowledge/Applied Learning)
- 4.2 - Recommend a solution based on an ethical framework (Specialized Knowledge/Applied Learning)

### Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.

The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with
your advisor or academic department to determine which catalog year and program requirements you should follow.

- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

## Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

### Code Title Semester Credit Hours

**English**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
</tbody>
</table>

**Mathematics**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

**History**

Select one History course 3

**Humanities**

Select one Humanities course 3

**Social and Behavioral Sciences**

Select one Social and Behavioral Sciences course 3

Select one Social and Behavioral Sciences course 3

**Fine Arts**

Select one Fine Arts course 3

**Natural Sciences**

Select one Natural Sciences course 3

Select one Natural Sciences course with a lab 4

Total Semester Credit Hours 31

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Foundation Courses

(21 semester hours. These courses plus Essential Learning Math & English requirements must be completed within the student’s first 60 hours.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 231</td>
<td>Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CISR 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 21

### Program Specific Requirements

(60 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BU 401</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>CISM 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>FINA 301</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 301</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MHRM 371</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 471</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 491</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MRMK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following courses: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISM 341</td>
<td>Quantitative Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>MARK 350</td>
<td>Marketing Research</td>
<td>3</td>
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</tbody>
</table>

### Business Administration Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BU 401</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>BU 410</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>BU 301</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>BU 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>BU 301</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>BU 371</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>BU 471</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>BU 491</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>BU 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following courses: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISM 341</td>
<td>Quantitative Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>MARK 350</td>
<td>Marketing Research</td>
<td>3</td>
</tr>
</tbody>
</table>

### Required Concentration Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMGT 101</td>
<td>Travel Industry I</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 200</td>
<td>Management and Supervisory Skills for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 370</td>
<td>Managing Quality Service</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 410</td>
<td>Hospitality Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 450</td>
<td>Strategic Hospitality Sales and Marketing</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 470</td>
<td>Hospitality Management Strategies</td>
<td>3</td>
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<tr>
<td>MANG 499</td>
<td>Internship</td>
<td>3-6</td>
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</table>

Total Semester Credit Hours 51-54

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
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</tr>
<tr>
<td>Select one Activity course</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.

2 This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.

3 7 semester hours, one course must include a lab.
### Restricted Electives

Upper Division Business/Hospitality Management Electives

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<table>
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<tr>
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<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>6-9</td>
</tr>
</tbody>
</table>

### General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 2 semester hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

While the sequencing below culminates in a total of 117-123 semester credit hours, students must complete a minimum of 120 semester credit hours as required for completion of the degree. Plan to complete requirements with varying hour options accordingly.

### Third Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGMT 450</td>
<td>Strategic Hospitality Sales and Marketing</td>
<td>3</td>
</tr>
<tr>
<td>FINA 301</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MANG 301</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HRMA 371</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - History</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISB 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>MARK 350</td>
<td>Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>HGMT 370</td>
<td>Managing Quality Service</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Upper Division Business/HMGT Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

### Fourth Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANG 491</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>HGMT 410</td>
<td>Hospitality Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 401</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Upper Division Business/HMGT Business Electives</td>
<td>0-3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>1</td>
</tr>
<tr>
<td>MANG 499</td>
<td>Internship (or take during summer)</td>
<td>2-6</td>
</tr>
</tbody>
</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HGMT 420</td>
<td>Hospitality Management Strategies</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 470</td>
<td>Hospitality Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 471</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Upper Division Business/HMGT Business Electives</td>
<td>0-3</td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to
officially declare the intended graduation date and commencement
ceremony plans.
• Register for all needed courses and complete all requirements for
each degree sought.
Submission deadlines and commencement details can be found at http://
www.coloradomesa.edu/registrar/graduation.html.
If a student’s petition for graduation is denied, it will be her/his
responsibility to consult the Registrar’s Office regarding next steps.

Human Resource Management,
Business Administration (BBA)
Degree: Bachelor of Business Administration
Major: Business Administration
Concentration: Human Resource Management
Program Code: 3128

About This Major . . .
The Bachelor of Business Administration (BBA) is designed to prepare
students for the challenges of today’s organizations, as well as the
business world of tomorrow. The program provides students with the
knowledge, skills, and abilities to compete in both local and global
business environments. Additionally, the program allows for an
emphasis in a specialized area such as management, marketing, finance,
economics, entrepreneurship, human resource management, energy
management, insurance, or hospitality management.

The BBA is a very versatile, flexible, and valuable degree. Colorado
Mesa’s BBA graduates have great success stories in the business world
as well as the ability to earn advanced degrees in business such as
the Master of Business Administration – one of the most sought after
degrees by employers in today’s job market.

With impending legislation, the need for additional personnel in the
area of human resource management will only grow in the future.
Become a part of the industry that performs vital functions for all
businesses: finding the right people for the right job and then providing
training and development for that employee. This concentration has
been recognized as aligning with the Society for Human Resource
Management curriculum.

For more information on what you can do with this major, go to http://
www.coloradomesa.edu/career/whatmajor.html.

To be admitted to the Bachelor of Business Administration program,
certain prerequisites must be satisfied. Please see the Department Head
of Business for complete requirements and application form.

The 21 semester hours listed under Foundation Courses, as well as
the Essential Learning English, Essential Learning Math and Essential
Learning Social and Behavioral Sciences Requirement must be
completed within the student’s first 60 hours.

All CMU baccalaureate graduates are expected to demonstrate
proficiency in critical thinking, communication fluency, quantitative
fluency, and specialized knowledge/applied learning. In addition to
these campus-wide student learning outcomes, students in this major
complete a plan of study that fulfills our department mission and requires
demonstrated comprehension of program specific learning outcomes.
These are as follows:

Mission: As a student-focused teaching and research department,
Colorado Mesa University’s Business Department prepares students to
be sound decision makers and serves businesses in the Rocky Mountain
region, the nation, and the world. We strive to develop prepared students
who demonstrate strong ethical principles, superior critical thinking,
effective communication, and robust business acumen.

Student Learning Outcomes
SLO #1: Critical Thinking/Problem Solving Skills:
• 1.1 - Apply business knowledge and skills in appropriate business
contexts (Critical Thinking)
• 1.2 - Transfer knowledge and skills to new business situations.
(Critical Thinking)
• 1.3 - Analyze business data critically, reason logically, and apply
quantitative analysis methods correctly to develop appropriate
business conclusions. (Quantitative Fluency)
• 1.4 - Analyze business data critically, reason logically, and apply
qualitative analysis methods correctly to develop appropriate
business conclusions. (Critical Thinking)

SLO #2: Effective Communication Skills:
• 2.1 - Communicate clearly, appropriately, and persuasively to the
audience in writing. (Communication Fluency)
• 2.2 - Communicate clearly, appropriately, and persuasively to the
audience orally (Communication Fluency)

SLO #3: Teamwork:
• 3.1 - Demonstrate an understanding of the role of teams in
organizations (Specialized Knowledge/Applied Learning)
• 3.2 - Demonstrate behaviors consistent with effective teamwork
(Specialized Knowledge/Applied Learning)

SLO #4: Ethical Awareness:
• 4.1 – Analyze an issue within an ethical framework (Specialized
Knowledge/Applied Learning)
• 4.2 – Recommend a solution based on an ethical framework
(Specialized Knowledge/Applied Learning)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU
baccalaureate degrees. Specific programs may have different
requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of
  credit at CMU, with at least 15 semester hours in major discipline
courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the
  Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH</td>
<td>College Algebra-GTMA1</td>
<td>2</td>
</tr>
</tbody>
</table>

- **English**
- **Mathematics**

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 6

- Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Foundation Courses

(21 semester hours. These courses plus Essential Learning Math & English requirements must be completed within the student’s first 60 hours.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUGB</td>
<td>Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 21

### Program Specific Degree Requirements

(45 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUGB</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>FINA</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MANG</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HRMA</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MARK</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

1. Must receive a grade of “C” or better and must be complete by the time the student has 60 semester hours.
2. This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3. 7 semester hours, one course must include a lab.
Select one of the following courses:

- CISB 341  Quantitative Decision Making  3
- MARK 350  Marketing Research  3

Human Resource Management Nucleus

- HRMA 372  Employment Assessment  3
- HRMA 373  Human Resource Management, Leadership, Ethics, and Social Responsibility  3
- MANG 410  Effective Workplace Communication  3
- HRMA 475  Compensation and Reward Systems  3
- HRMA 478  Advanced Human Resource Management  3

Total Semester Credit Hours  45

General Electives

(17 semester hours) It is strongly recommended to meet with a Business Advisor to choose electives that complement the nucleus or choose the nucleus of a second concentration. At least four hours must be upper division. Also include all college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select additional electives</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>17</td>
</tr>
</tbody>
</table>

First Year

Fall Semester

- Essential Learning - Social and Behavioral Sciences  3
- Essential Learning - Social and Behavioral Sciences  3
- Essential Learning - Fine Arts  3
- ENGL 111  English Composition-GTCO1  3
- MATH 113  College Algebra-GTMA1  4

Spring Semester

- ENGL 112  English Composition-GTCO2  3
- CISB/STAT 241  Introduction to Business Analysis  3
- CISB 210  Fundamentals of Information Systems  3
- Essential Learning - Natural Science with Lab  4
- KINE 100  Health and Wellness  1
- KINA Activity  1

Second Year

Fall Semester

- ACCT 201  Principles of Financial Accounting  3
- ECON 201  Principles of Macroeconomics-GTSS1  3
- MANG 201  Principles of Management  3
- BUGB 231  Survey of Business Law  3
- Essential Learning - History  3

Spring Semester

- BUGB 211  Business Communications  3
- ACCT 202  Principles of Managerial Accounting  3
- ECON 202  Principles of Microeconomics-GTSS1  3
- ESSL 290  Maverick Milestone  3

ESSL 200  Essential Speech  1

Essential Learning - Humanities  3

Third Year

Fall Semester

- MARK 231  Principles of Marketing  3
- HRMA 371  Human Resource Management  3
- MANG 301  Organizational Behavior  3
- Essential Learning - Natural Science  3
- General Elective  3

Spring Semester

- FINA 301  Managerial Finance  3
- HRMA 372  Employment Assessment  3
- HRMA 373  Human Resource Management, Leadership, Ethics, and Social Responsibility  3

General Electives (2 courses)  6

Fourth Year

Fall Semester

- CISB 341  or MARK 350  Quantitative Decision Making  or Marketing Research  3
- BUGB 401  International Business  3
- MANG 410  Effective Workplace Communication  3
- MANG 471  Operations Management  3
- HRMA 475  Compensation and Reward Systems  3

Spring Semester

- HRMA 478  Advanced Human Resource Management (Capstone)  3
- General Electives (2 courses)  6
- MANG 491  Business Strategy  3
- Elective  1

Total Semester Credit Hours  120

Advising Process and DegreeWorks

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Graduation Process

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• Register for all needed courses and complete all requirements for each degree sought.

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If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Insurance, Business Administration (BBA)

Degree: Bachelor of Business Administration
Major: Business Administration
Concentration: Insurance
Program Code: 3169

About This Major . . .

The Bachelor of Business Administration (BBA) is designed to prepare students for the challenges of today’s organizations, as well as the business world of tomorrow. The program provides students with the knowledge, skills, and abilities to compete in both local and global business environments. Additionally, the program allows for an emphasis in a specialized area such as management, marketing, finance, economics, entrepreneurship, energy management or landman/energy management.

Colorado Mesa’s BBA graduates are entrepreneurs, small business owners, bank vice-presidents, product managers in advertising firms and project and operations managers in manufacturing organizations. The BBA is a very versatile, flexible and valuable degree. Colorado Mesa’s BBA graduates have great success stories in the business world as well as the ability to earn advanced degrees in business such as the Master of Business Administration – one of the most sought after degrees by employers in today’s job market.

Risk management is an important topic for all businesses today. Join a growing industry that provides a solution to both business and individuals in the management of business and personal risk - the insurance industry. Classes taught by faculty and professionals in the insurance industry provide students with invaluable learning opportunities.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

To be admitted to the Bachelor of Business Administration program, certain prerequisites must be satisfied. Please see the Department Head of Business for complete requirements and application form.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, students in this major complete a plan of study that fulfills our department mission and requires demonstrated comprehension of program specific learning outcomes. These are as follows:

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• 2.1 - Communicate clearly, appropriately, and persuasively to the audience in writing. (Communication Fluency)
• 2.2 - Communicate clearly, appropriately, and persuasively to the audience orally (Communication Fluency)

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• 3.1 - Demonstrate an understanding of the role of teams in organizations (Specialized Knowledge/Applied Learning)
• 3.2 - Demonstrate behaviors consistent with effective teamwork (Specialized Knowledge/Applied Learning)

SLO #4: Ethical Awareness:
• 4.1 – Analyze an issue within an ethical framework (Specialized Knowledge/Applied Learning)
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• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
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• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
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Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>English</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Mathematics</strong></td>
<td></td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>History</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Social and Behavioral Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Fine Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2 This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3 7 semester hours, one course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
</table>

Wellness Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

Essential Learning Capstone 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(21 semester hours. These courses plus ECON 201, ECON 202, and Essential Learning Math & English requirements must be completed within the student’s first 60 hours.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 231</td>
<td>Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CISB 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 241</td>
<td>Introduction to Business Analysis</td>
<td></td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>21</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements
(45 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
</table>

Business Administration Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUGB 401</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>CISB 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>FINA 301</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 301</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HRMA 371</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 471</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 491</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>One of the following courses:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CISB 341</td>
<td>Quantitative Decision Making</td>
<td></td>
</tr>
<tr>
<td>MARK 350</td>
<td>Marketing Research</td>
<td></td>
</tr>
</tbody>
</table>
Insurance, Business Administration (BBA)

Insurance Nucleus

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FINA 310</td>
<td>Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>FINA 320</td>
<td>Fundamentals of Investments</td>
<td>3</td>
</tr>
<tr>
<td>FINA 412</td>
<td>Life and Health Insurance Licensure and Financial Planning</td>
<td>3</td>
</tr>
<tr>
<td>FINA 415</td>
<td>Property and Liability Insurance Licensure</td>
<td>3</td>
</tr>
<tr>
<td>HRMA 475</td>
<td>Compensation and Reward Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 45

General Electives

(17 semester hours) It is strongly recommended to meet with a Business Advisor to choose electives that complement the nucleus or choose the nucleus of a second concentration. At least four hours must be upper division. Also include all college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.

Code | Title                        | Semester Credit Hours |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select additional electives</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>17</td>
</tr>
</tbody>
</table>

Third Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FINA 320</td>
<td>Fundamentals of Investments</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FINA 412</td>
<td>Life and Health Insurance Licensure and Financial Planning</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FINA 310</td>
<td>Risk Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HRMA 475</td>
<td>Compensation and Reward Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FINA 415</td>
<td>Property and Liability Insurance Licensure</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HRMA 371</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>FINA 301</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MANG 301</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HRMA 475</td>
<td>Compensation and Reward Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>General Electives (2 courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
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</table>

Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MANG 491</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>FINA 415</td>
<td>Property and Liability Insurance Licensure</td>
<td>3</td>
</tr>
<tr>
<td>General Electives (2 courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Semester Credit Hours</td>
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</table>

Fourth Year

<table>
<thead>
<tr>
<th>Fall Semester</th>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MANG 471</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ACCT 201</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>ESSL 415</td>
<td>Property and Liability Insurance Licensure</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ESSL 416</td>
<td>General Electives (2 courses)</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>120</td>
<td></td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
Management, Business Administration (BBA)

Degree: Bachelor of Business Administration
Major: Business Administration
Concentration: Management
Program Code: 3126

About This Major . . .
The Bachelor of Business Administration (BBA) is designed to prepare students for the challenges of today's organizations, as well as the business world of tomorrow. The program provides students with the knowledge, skills, and abilities to compete in both the local and global business environments. Additionally, the program allows for an emphasis in a specialized area such as management, marketing, finance, economics, entrepreneurship, insurance, energy management or hospitality management.

The BBA degree can be applied in various fields such as medicine, the arts, sports, and education. In addition to positions in corporate America, nonprofit organizations like hospitals, school systems, and theaters also require people with business training and skills. Graduates of BBA programs hold positions in organizations from entry level manager to chief executive officer.

Colorado Mesa's BBA graduates are entrepreneurs, small business owners, bank vice-presidents, product managers in advertising firms and project and operations managers in manufacturing organizations. The BBA is a very versatile, flexible and valuable degree. Colorado Mesa BBA graduates have great success stories in the business world as well as the ability to earn advanced degrees in business such as the Master of Business Administration – one of the most sought after degrees by employers in today's job market.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

To be admitted to the Bachelor of Business Administration program, certain prerequisites must be satisfied. Please see the Department Head of Business for complete requirements and application form.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, students in this major complete a plan of study that fulfills our department mission and requires demonstrated comprehension of program specific learning outcomes. These are as follows:

Mission: As a student-focused teaching and research department, Colorado Mesa University's Business Department prepares students to be sound decision makers and serves businesses in the Rocky Mountain region, the nation, and the world. We strive to develop prepared students who demonstrate strong ethical principles, superior critical thinking, effective communication, and robust business acumen.

Student Learning Outcomes

SLO #1: Critical Thinking/Problem Solving Skills:
- 1.1 - Apply business knowledge and skills in appropriate business contexts (Critical Thinking)
- 1.2 - Transfer knowledge and skills to new business situations. (Critical Thinking)
- 1.3 - Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
- 1.4 - Analyze business data critically, reason logically, and apply qualitative analysis methods correctly to develop appropriate business conclusions. (Critical Thinking)

SLO #2: Effective Communication Skills:
- 2.1 - Communicate clearly, appropriately, and persuasively to the audience in writing. (Communication Fluency)
- 2.2 - Communicate clearly, appropriately, and persuasively to the audience orally (Communication Fluency)

SLO #3: Teamwork:
- 3.1 - Demonstrate an understanding of the role of teams in organizations (Specialized Knowledge/Applied Learning)
- 3.2 - Demonstrate behaviors consistent with effective teamwork (Specialized Knowledge/Applied Learning)

SLO #4: Ethical Awareness:
- 4.1 – Analyze an issue within an ethical framework (Specialized Knowledge/Applied Learning)
- 4.2 – Recommend a solution based on an ethical framework (Specialized Knowledge/Applied Learning)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a
baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.

- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course w/ lab</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 31

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2 This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3 7 semester hours, one course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

Foundation Courses

(21 semester hours. These courses plus Essential Learning Math & English requirements must be completed within the student’s first 60 hours.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 231</td>
<td>Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CISB 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 21

Program Specific Degree Requirements

(45 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BU 401</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>CISB 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>FINA 301</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 301</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HRMA 371</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 471</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 491</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>CISB 341</td>
<td>Quantitative Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>MARK 350</td>
<td>Marketing Research</td>
<td>3</td>
</tr>
</tbody>
</table>

One of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BU 372</td>
<td>Employment Assessment</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 300</td>
<td>Small Business and Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 450</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 39
### Restricted Electives

Two of the following courses: 6

- **ACCT 311** Advanced Managerial Accounting
- **ENTR 340** Applied Financial Management for Emerging Businesses
- **BUGB 440** Business Ethics
- **CISB 305** Solving Problems Using Spreadsheets
- **CISB 306** Solving Problems Using Databases
- **CISB 470** Management of Information Systems
- **FINA 310** Risk Management
- **HRMA 373** Human Resource Management, Leadership, Ethics, and Social Responsibility
- **MANG 410** Effective Workplace Communication

Total Semester Credit Hours 6

### General Electives

(17 semester hours) It is strongly recommended to meet with a Business Advisor to choose electives that complement the nucleus or choose the nucleus of a second concentration. At least four hours must be upper division. Also include all college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td>Select additional electives</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>17</td>
<td></td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks

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### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:
• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Business Analytics, Business Administration (BBA)**

Degree: Bachelor of Business Administration
Major: Business Administration
Concentration: Business Analytics
Program Code: 3173

**About This Major . . .**

The Bachelor of Business Administration (BBA) is designed to prepare students for the challenges of today’s organizations, as well as the business world of tomorrow. The program provides students with the knowledge, skills, and abilities to compete in both local and global business environments. Additionally, the program allows for an emphasis in a specialized area such as management, marketing, finance, economics, entrepreneurship, insurance, energy management and hospitality management.

The BBA is a very versatile, flexible and valuable degree. Colorado Mesa BBA graduates have great success stories in the business world as well as the ability to earn advanced degrees in business such as the Master of Business Administration — one of the most sought after degrees by employers in today's job market.

Graduates assist businesses with creating, obtaining, and maintaining computer information systems that solve problems and assist in facilitating routine business events. As businesses increasingly rely on technology to provide efficiency, employees with an understanding of both business concepts and computer systems are a necessity.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

To be admitted to the Bachelor of Business Administration program, certain prerequisites must be satisfied. Please see the Department Head of Business for complete requirements and application form.

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**Student Learning Outcomes**

**SLO #1: Critical Thinking/Problem Solving Skills:**

• 1.1 - Apply business knowledge and skills in appropriate business contexts (Critical Thinking)
• 1.2 - Transfer knowledge and skills to new business situations. (Critical Thinking)
• 1.3 - Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
• 1.4 - Analyze business data critically, reason logically, and apply qualitative analysis methods correctly to develop appropriate business conclusions. (Critical Thinking)

**SLO #2: Effective Communication Skills:**

• 2.1 - Communicate clearly, appropriately, and persuasively to the audience in writing. (Communication Fluency)
• 2.2 - Communicate clearly, appropriately, and persuasively to the audience orally (Communication Fluency)

**SLO #3: Teamwork:**

• 3.1 - Demonstrate an understanding of the role of teams in organizations (Specialized Knowledge/Applied Learning)
• 3.2 - Demonstrate behaviors consistent with effective teamwork (Specialized Knowledge/Applied Learning)

**SLO #4: Ethical Awareness:**

• 4.1 – Analyze an issue within an ethical framework (Specialized Knowledge/Applied Learning)
• 4.2 – Recommend a solution based on an ethical framework (Specialized Knowledge/Applied Learning)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a
baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.

- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 31

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2 This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3 7 semester hours, one course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

Foundation Courses
(21 semester hours. These courses plus Essential Learning Math & English requirements must be completed within the student’s first 60 hours.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUGB</td>
<td>Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

Program Specific Degree Requirements
(48 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUGB</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>FINA</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MANG</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>HRMA</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG</td>
<td>Operations Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG</td>
<td>Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MARK</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Quantitative Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>MARK</td>
<td>Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Advanced Business Software</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Solving Problems Using Spreadsheets</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Solving Problems Using Databases</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Data Mining and Visualization</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Big Data Analytics</td>
<td>3</td>
</tr>
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</table>

One of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISB</td>
<td>Quantitative Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>MARK</td>
<td>Marketing Research</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Advanced Business Software</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Solving Problems Using Spreadsheets</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Solving Problems Using Databases</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Data Mining and Visualization</td>
<td>3</td>
</tr>
<tr>
<td>CISB</td>
<td>Big Data Analytics</td>
<td>3</td>
</tr>
</tbody>
</table>
### General Electives

(14 semester hours) It is strongly recommended to meet with a Business Advisor to choose electives that complement the nucleus or choose the nucleus of a second concentration. At least seven hours must be upper division. Also include all college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
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</tr>
<tr>
<td></td>
<td>Select additional electives</td>
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<td></td>
<td>Total Semester Credit Hours</td>
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<table>
<thead>
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<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>First Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CISB 205 Advanced Business Software</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGL 111 English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 113 College Algebra-GTMA1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL 112 English Composition-GTCO2</td>
<td>3</td>
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<tr>
<td></td>
<td>CISB/STAT 241 Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CISB 210 Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science with Lab</td>
<td>4</td>
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<tr>
<td></td>
<td>KINE 100 Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>KINA Activity</td>
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<table>
<thead>
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<tr>
<td></td>
<td>Second Year</td>
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</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACCT 201 Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECON 201 Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUGB 211 Business Communications</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUGB 231 Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ACCT 202 Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECON 202 Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MANG 201 Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ESSL 290 Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ESSL 200 Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Humanities</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Third Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MARK 231 Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CISB 305 Solving Problems Using Spreadsheets</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CISB 341 Quantitative Decision Making</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or MARK 350 Marketing Research</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science</td>
<td>3</td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).
Marketing, Business Administration (BBA)

Degree: Bachelor of Business Administration  
Major: Business Administration  
Concentration: Marketing  
Program Code: 3127

About This Major...

The Bachelor of Business Administration (BBA) is designed to prepare students for the challenges of today's organizations, as well as the business world of tomorrow. The program provides students with the knowledge, skills, and abilities to compete in both local and global business environments. Additionally, the program allows for an emphasis in a specialized area such as management, marketing, finance, economics, or hospitality management. The BBA is a very versatile, flexible, and valuable degree. Colorado Mesa's BBA graduates have the ability to earn advanced degrees in business such as the Master of Business Administration—one of the most sought-after degrees by employers in today's job market. Marketing is a critical part of today's business. Classes in promotion, consumer behavior, sales, and sales management, creating marketing materials, and advanced marketing will place marketing students on a path to an exciting, fast-paced career in marketing for large and small businesses, health care and nonprofits to name a few areas. Selling skills are essential for all areas of business providing marketing students with an important skill to build their resume.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

To be admitted to the Bachelor of Business Administration program, certain prerequisites must be satisfied. Please see the Department Head of Business for complete requirements and application form.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, students in this major complete a plan of study that fulfills our department mission and requires demonstrated comprehension of program specific learning outcomes. These are as follows:

Mission: As a student-focused teaching and research department, Colorado Mesa University's Business Department prepares students to be sound decision makers and serves businesses in the Rocky Mountain region, the nation, and the world. We strive to develop prepared students who demonstrate strong ethical principles, superior critical thinking, effective communication, and robust business acumen.

Student Learning Outcomes

SLO #1: Critical Thinking/Problem Solving Skills:

• 1.1 - Apply business knowledge and skills in appropriate business contexts (Critical Thinking)
• 1.2 - Transfer knowledge and skills to new business situations. (Critical Thinking)
• 1.3 - Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
• 1.4 - Analyze business data critically, reason logically, and apply qualitative analysis methods correctly to develop appropriate business conclusions. (Critical Thinking)

SLO #2: Effective Communication Skills:

• 2.1 - Communicate clearly, appropriately, and persuasively to the audience in writing. (Communication Fluency)
• 2.2 - Communicate clearly, appropriately, and persuasively to the audience orally (Communication Fluency)

SLO #3: Teamwork:

• 3.1 - Demonstrate an understanding of the role of teams in organizations (Specialized Knowledge/Applied Learning)
• 3.2 - Demonstrate behaviors consistent with effective teamwork (Specialized Knowledge/Applied Learning)

SLO #4: Ethical Awareness:

• 4.1 – Analyze an issue within an ethical framework (Specialized Knowledge/Applied Learning)
• 4.2 – Recommend a solution based on an ethical framework (Specialized Knowledge/Applied Learning)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.
Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>31</td>
<td></td>
</tr>
</tbody>
</table>

1. Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2. This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3. 7 semester hours, one course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
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<td>ESSL 290</td>
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</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(21 semester hours. These courses plus Essential Learning Math & English requirements must be completed within the student's first 60 hours.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 231</td>
<td>Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CISB 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
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</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>21</td>
<td></td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements
(45 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>BUGB 401</td>
<td>International Business</td>
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</tr>
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<td>CISB 210</td>
<td>Fundamentals of Information Systems</td>
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<td>FINA 301</td>
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<td>MANG 201</td>
<td>Principles of Management</td>
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</tr>
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<td>MANG 301</td>
<td>Organizational Behavior</td>
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<td>HRMA 371</td>
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<td>MANG 471</td>
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<td>3</td>
</tr>
<tr>
<td>CISB 341</td>
<td>Quantitative Decision Making</td>
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</tr>
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<td>MARK 350</td>
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Business Administration Core

<table>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MARK 325</td>
<td>Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MARK 332</td>
<td>Promotion</td>
<td>3</td>
</tr>
<tr>
<td>MARK 335</td>
<td>Sales and Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>MARK 340</td>
<td>Creating Marketing Materials</td>
<td>3</td>
</tr>
<tr>
<td>MARK 432</td>
<td>Advanced Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>45</td>
<td></td>
</tr>
</tbody>
</table>

Marketing Nucleus

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARK 325</td>
<td>Consumer Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MARK 332</td>
<td>Promotion</td>
<td>3</td>
</tr>
<tr>
<td>MARK 335</td>
<td>Sales and Sales Management</td>
<td>3</td>
</tr>
<tr>
<td>MARK 340</td>
<td>Creating Marketing Materials</td>
<td>3</td>
</tr>
<tr>
<td>MARK 432</td>
<td>Advanced Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>45</td>
<td></td>
</tr>
</tbody>
</table>

General Electives
(17 semester hours) It is strongly recommended to meet with a Business Advisor to choose electives that complement the nucleus or choose the nucleus of a second concentration. At least four hours must be upper division. Also include all college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Business Administration, Liberal Arts (AA)

Degree: Associate of Arts
Major: Liberal Arts
Emphasis: Business Administration
Program Code: 2141
About This Major...

The Associate of Arts (AA) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The AA is also an appropriate choice for students who will take upper division coursework in the arts, humanities, or social and behavioral sciences. The degree program includes the Colorado Statewide Essential Learning Core and meets the lower-division Essential Learning requirements at most public institutions in Colorado. The Business Administration AA degree, in addition to providing students with Essential Learning coursework, is useful in giving students an overview of the business world.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Locate, gather and organize information on an assigned business topic. (Specialized Knowledge)
2. Recognize mathematical concepts and methods in relation to business issues. (Quantitative Fluency)
3. Communicate clearly and appropriately basic business information. (Communication Fluency)
4. Describe beginning business concepts in appropriate business contexts. (Critical Thinking)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU or WCCC Associate of Arts (AA) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours total.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade of "C" or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado's guaranteed transfer program.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 15 semester credit hours for an AA degree. A maximum of 6 of the 15 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>History</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social and Behavioral Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course with a lab</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2 This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to general elective credit.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>
Students that intend to continue with Colorado Mesa University should take ESSL 290 and ESSL 200 during the final semester of their Associate of Arts work.

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

**Entrepreneurship (Professional Certificate)**

**Award:** Professional Certificate  
**Program of Study:** Entrepreneurship  
**Program Code:** 1171

**About This Major . . .**

The Certificate in Entrepreneurship is designed to expose students and prospective entrepreneurs to the beginning knowledge and skills needed to examine and evaluate entrepreneurship opportunities. The certificate will provide students with an overview of information they would encounter if they went on to earn the minor in Entrepreneurship or BBA concentration in Entrepreneurship, each of which more fully prepares people to operate their own small business.
Institutional Certificate Requirements

The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Primarily 300-400 level courses.
- At least fifty percent of the credit hours must be taken at CMU.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(9 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 300</td>
<td>Small Business and Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 340</td>
<td>Applied Financial Management for Emerging Businesses</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 343</td>
<td>Exploring Entrepreneur Opportunities</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Course Title Semester Credit Hours

First Year
Fall Semester
ENTR 300 Small Business and Entrepreneurship 3
ENTR 340 Applied Financial Management for Emerging Businesses 3

Spring Semester
ENTR 343 Exploring Entrepreneur Opportunities 3

Total Semester Credit Hours 9

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Supervision (Technical Certificate)

Degree: Technical Certificate
Program of Study: Supervision
Program Code: 1172

About This Major . . .

The Certificate in Supervision is designed to expose students and business managers to the knowledge and skills needed to supervise employees in the workplace. The certificate will provide students with an overview of information they would encounter if they went on to earn the Management Concentration in the BBA, which more fully prepares people to manage business functions and employees.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(9 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
</table>

### Introduction to Business
Complete one of the following options: 3

**Option 1:**
- BUGB 101 Introduction to Business

**Option 2:**
- BUGB 101A Introduction to Business: Part 1 of 3
- BUGB 101B Introduction to Business: Part 2 of 3
- BUGB 101C Introduction to Business: Part 3 of 3

### Principles of Management
Complete one of the following options: 3

**Option 1:**
- MANG 201 Principles of Management

**Option 2:**
- MANG 201A Principles of Management: Part 1 of 3
- MANG 201B Principles of Management: Part 2 of 3
- MANG 201C Principles of Management: Part 3 of 3

### Business Communications
Complete one of the following options: 3

**Option 1:**
- BUGB 211 Business Communications

**Option 2:**
- BUGB 211A Business Communications: Part 1 of 3
- BUGB 211B Business Communications: Part 2 of 3
- BUGB 211C Business Communications: Part 3 of 3

Total Semester Credit Hours 9

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
Program Specific Minor Requirements (24 semester hours)

Economics (Minor)

About This Minor...

The minor in Economics is designed to prepare students with an overview of the basics of economics. Coursework includes the principles classes in Macroeconomics and Microeconomics plus the Intermediate Macroeconomics and Microeconomics courses.

The analytical skills plus the economics coursework required prepares students with the critical thinking and problem solving skills needed in today's world as well as the ability to apply economic rationale in the decision making process.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 320</td>
<td>History of Economic Ideas</td>
<td>3</td>
</tr>
<tr>
<td>ECON 342</td>
<td>Intermediate Macroeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>ECON 343</td>
<td>Intermediate Microeconomic Theory</td>
<td>3</td>
</tr>
<tr>
<td>MATH 121</td>
<td>Calculus for Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISB 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>STAT 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
</tbody>
</table>

Select 3 semester hours of additional Upper Division hours in Economics

Total Semester Credit Hours 24

1 CISB 241 and STAT 241 have prerequisites not required for this minor. Please refer to course descriptions.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Entrepreneurship (Minor)

About This Minor...

The minor in Entrepreneurship is designed to equip students with the basic knowledge and skills needed to successfully operate their own small business. A foundation in accounting, management, marketing, and finance provides students an opportunity to build a working knowledge of business. The entrepreneurship minor is intended for students in disciplines other than business who wish to begin small businesses in their major area. The minor will provide students with the
basics needed as they face the exciting challenges of small business ownership.

**Institutional Minor Requirements**

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Minor Requirements**

(18 semester hours)

- Students pursuing a BBA may not minor in Entrepreneurship. See policy for minors in the catalog.
- Before entering the minor in Entrepreneurship students are presumed to have basic communication and computer literacy, including a working knowledge of word processing and spreadsheet software. Students lacking this basic knowledge are responsible for attaining it through course work, tutorials, or workshops.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 300</td>
<td>Small Business and Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 340</td>
<td>Applied Financial Management for Emerging Businesses</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 343</td>
<td>Exploring Entrepreneur Opportunities</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 401</td>
<td>Entrepreneurial Finance</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 450</td>
<td>Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
<td><strong>18</strong></td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
BUSINESS ANALYTICS

(See Business (p. 203))
CHEMISTRY

Program Description
Chemistry
Chemistry is the systematic study of matter in the universe. It is often referred to as the “central science” in that it acts as the connection between many other disciplines including physics, biology, engineering, earth science, environmental science and medicine. Chemistry students gain a unique perspective on the composition, properties and reactivity of the substances surrounding them. These students gain problem-solving skills that can be applied in chemistry labs, in other classes and in day-to-day life. By having chemistry faculty with a diverse range of specialties (analytical chemistry, biochemistry, inorganic chemistry, physical chemistry and organic chemistry), our chemistry majors have the opportunity to learn about each of these fields. Recent graduates have been successful in the chemical industry and in secondary education. Many have continued their education in graduate and professional schools.

Opportunities for student research are numerous and the program is well equipped with modern chemical instrumentation, including a 300 MHz FT-NMR spectrometer, FT-IR and UV-visible spectrophotometers, high performance liquid and ion chromatographs and an inductively-coupled plasma atomic emission spectrometer.

As the “central science,” a strong background in chemistry is a wonderful complement to many other majors. A chemistry minor should be considered by any student who is interested in a career in science, medicine, patent law or technical sales.

Biochemistry
We offer a concentration in biochemistry within the chemistry degree. Biochemistry students build a strong foundation in chemistry and apply their knowledge to problems in chemistry and biology. Students learn to critically analyze chemical structures and chemical and biochemical reactions, skills which are necessary for success in fields of biochemistry, medicinal chemistry, medicine, pharmacy and chemical biology. By taking upper division courses in chemistry and biology, biochemistry majors develop a strong understanding of both subjects. Through research under a chemistry or biology faculty member, students can enhance their laboratory and critical thinking skills.

Contact Information
Department of Physical and Environmental Sciences
Wubben Science 232
970.248.1993

Bachelors/Minors

• Biochemistry, Chemistry (BS) (p. 251)
• Chemistry (BS) (p. 254)
• Chemistry (Minor) (p. 257)

Biochemistry, Chemistry (BS)

Degree: Bachelor of Science
Major: Chemistry
Concentration: Biochemistry
Program Code: 3476

About This Major . . .
Biochemistry students build a strong foundation in chemistry and apply their knowledge to problems in chemistry and biology. Students learn to critically analyze chemical structures and chemical and biochemical reactions, skills which are necessary for success in fields of biochemistry, medicinal chemistry, medicine, pharmacy and chemical biology. By taking upper division courses in chemistry and biology, biochemistry majors develop a strong understanding of both subjects. Through research under a chemistry or biology faculty member, students can enhance their laboratory and critical thinking skills.

The program culminates in two courses designed to bridge students’ coursework with their entry into the workforce, a medical degree program, or graduate school. The Advanced Laboratory course helps students to synthesize knowledge from various chemical disciplines and apply it to solving chemical problems in a practical manner. This is similar to the type of process that they are likely to experience after graduation. Our Communicating in the World of Chemistry course couples with our Advanced Laboratory course to help students express themselves in a professional manner while applying for and entering their new positions.

Colorado Mesa University graduates have been successful in finding jobs in the pharmaceutical industry and in secondary education, as well as being placed in graduate, pharmacy and medical schools.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate fluency in the concepts from major fields of chemistry (organic, physical, analytical, and biochemistry...)
2. Utilize mathematics to solve chemical and biological problems.
3. Employ proper experimental techniques.
4. Interpret chemical and biological information from peer-reviewed publications.
5. Communicate chemical and biological topics effectively, both verbally and in writing.
6. Demonstrate a solid understanding of genetics, cellular, and molecular biology.

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/ certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

## Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English</strong> 1&lt;br&gt;ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td><strong>Mathematics</strong> 1&lt;br&gt;MATH 151</td>
<td>Calculus I-GT-MA1 2</td>
<td>3</td>
</tr>
<tr>
<td><strong>History</strong></td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Social and Behavioral Sciences</strong>&lt;br&gt;Select one Social and Behavioral Sciences course</td>
<td>3</td>
<td>&lt;br&gt;Select one Social and Behavioral Sciences course</td>
</tr>
<tr>
<td><strong>Fine Arts</strong></td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Natural Sciences</strong>&lt;br&gt;Select one Natural Sciences course</td>
<td>3</td>
<td>&lt;br&gt;Select one Natural Sciences course with a lab</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wellness Requirement</strong>&lt;br&gt;KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>Essential Learning Capstone</strong> 1&lt;br&gt;ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

## Foundation Courses

(21 semester hours, must earn a grade of “C” or better in each course)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 105</td>
<td>Attributes of Living Systems-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 105L</td>
<td>Attributes of Living Systems Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>5</td>
</tr>
</tbody>
</table>

Select one of the following sets of courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 131 &amp; 131L</td>
<td>Fundamental Mechanics-GTSC1 &amp; Fundamental Mechanics Laboratory-GTSC1</td>
<td>5</td>
</tr>
</tbody>
</table>

Select one of the following sets of courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 132 &amp; 132L</td>
<td>Electromagnetism and Optics-GTSC1 &amp; Electromagnetism and Optics Laboratory-GTSC1</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 21

## Program Specific Degree Requirements

(54 semester hours, must pass all courses with a grade of “C” or higher)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 131</td>
<td>General Chemistry I-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 131L</td>
<td>General Chemistry Laboratory I-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 132L</td>
<td>General Chemistry Laboratory II-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 301</td>
<td>Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 301L</td>
<td>Analytical Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311L</td>
<td>Organic Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 312</td>
<td>Organic Chemistry II</td>
<td>4</td>
</tr>
</tbody>
</table>
### General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 8 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 131 &amp; 131L</td>
<td>General Chemistry I-GTSC1 and General Chemistry Laboratory I-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 105 &amp; 105L</td>
<td>Attributes of Living Systems-GTSC1 and Attributes of Living Systems Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 310 &amp; 310L</td>
<td>Developmental Biology-GTSC1 and Developmental Biology Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GTMA1</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 311 &amp; 311L</td>
<td>Organic Chemistry I and Organic Chemistry I Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 131 &amp; 131L</td>
<td>Fundamental Mechanics-GTSC1 and Fundamental Mechanics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 111 &amp; 111L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 132 &amp; 132L</td>
<td>Electromagnetism and Optics-GTSC1 and Electromagnetism and Optics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 112 &amp; 112L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 315 &amp; 315L</td>
<td>Biochemistry and Biochemistry Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 302</td>
<td>Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

### Restricted Electives

Select 7 semester hours from the following list: 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 322</td>
<td>Physical Chemistry II</td>
</tr>
<tr>
<td>CHEM 351</td>
<td>Inorganic Chemistry I</td>
</tr>
<tr>
<td>CHEM 352</td>
<td>Inorganic Chemistry II</td>
</tr>
<tr>
<td>CHEM 396</td>
<td>Topics</td>
</tr>
<tr>
<td>CHEM 397</td>
<td>Structured Research</td>
</tr>
<tr>
<td>CHEM 421</td>
<td>Advanced Organic Chemistry I</td>
</tr>
<tr>
<td>CHEM 422</td>
<td>Advanced Organic Chemistry II</td>
</tr>
<tr>
<td>CHEM 431</td>
<td>Instrumental Analysis and Instrumental Analysis Laboratory</td>
</tr>
<tr>
<td>CHEM 487</td>
<td>Formal Research</td>
</tr>
<tr>
<td>CHEM 494</td>
<td>Seminar</td>
</tr>
<tr>
<td>CHEM 496</td>
<td>Topics</td>
</tr>
<tr>
<td>CHEM 497</td>
<td>Structured Research</td>
</tr>
<tr>
<td>BIOL 310 &amp; 310L</td>
<td>Developmental Biology and Developmental Biology Laboratory</td>
</tr>
<tr>
<td>BIOL 341 &amp; 341L</td>
<td>General Physiology and General Physiology Laboratory</td>
</tr>
<tr>
<td>BIOL 343</td>
<td>Immunology</td>
</tr>
<tr>
<td>BIOL 350 &amp; 350L</td>
<td>Microbiology and Microbiology Laboratory</td>
</tr>
<tr>
<td>BIOL 387</td>
<td>Structured Research</td>
</tr>
<tr>
<td>BIOL 403</td>
<td>Evolution</td>
</tr>
<tr>
<td>BIOL 425</td>
<td>Molecular Genetics</td>
</tr>
<tr>
<td>BIOL 441</td>
<td>Endocrinology</td>
</tr>
<tr>
<td>BIOL 442</td>
<td>Pharmacology</td>
</tr>
<tr>
<td>BIOL 487</td>
<td>Advanced Research</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 7

---

1 No more than 4 semester hours can come from CHEM 397, CHEM 487, CHEM 497, BIOL 387, or BIOL 487
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Chemistry (BS)

Degree: Bachelor of Science
Major: Chemistry
Program Code: 3470

About This Major . . .

Chemistry students gain a unique perspective on the composition, properties, and reactivity of the substances surrounding them. These students gain problem-solving skills that can be applied in chemistry labs, in other classes, and in day-to-day life. By having chemistry faculty with a diverse range of specialties (analytical, inorganic, physical, organic, and biochemistry), chemistry majors have the opportunity to learn about each of these fields, and they are provided with a wide variety of research opportunities. Students are trained to independently use modern instrumentation, including a 300 MHz nuclear magnetic resonance spectrometer liquid chromatograph, a mass spectrometer, and an ICP atomic emission spectrophotometer. The programs culminate in two courses designed to bridge students' coursework with their entry into the workforce or graduate school. In Advanced Laboratory, students synthesize knowledge from various chemical disciplines and apply it to solving chemical problems in a practical manner. Our Communicating in the World of Chemistry course couples with our Advanced Laboratory course to help students express themselves in a professional manner while applying for and entering their new positions.

Colorado Mesa graduates have jobs in the chemical industry and secondary education, and have gone to graduate, pharmacy, and medical schools. Our graduates have completed Ph.D. programs at the University of Denver, Arizona State University, University of Utah and University of Wyoming in chemistry, biomedical engineering and environmental engineering.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate fluency in the concepts from the major fields of chemistry (inorganic, organic, physical, and analytical). (Specialized Knowledge)
2. Utilize mathematics to solve chemical problems. (Quantitative Fluency)
3. Employ proper experimental techniques. (Applied Learning)
4. Interpret chemical information from peer-reviewed publications. (Critical Thinking)
5. Communicate chemical topics effectively, both verbally and in writing. (Communication Fluency)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.
• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
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• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**  
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH</td>
<td>Calculus I-GT-MA1</td>
<td>2</td>
</tr>
</tbody>
</table>

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ESSL</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

**Foundation Courses**  
(17 semester hours, must pass all courses with a grade of "C" or higher)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>Calculus I-GT-MA1</td>
<td>2</td>
</tr>
<tr>
<td>MATH</td>
<td>Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>Select one of the following sets of courses:</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>PHYS</td>
<td>Fundamental Mechanics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 131L</td>
<td>Fundamental Mechanics Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>PHYS</td>
<td>General Physics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 111L</td>
<td>General Physics Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following sets of courses:</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>PHYS</td>
<td>Electromagnetism and Optics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 132L</td>
<td>Electromagnetism and Optics Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>PHYS</td>
<td>General Physics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 112L</td>
<td>General Physics Laboratory-GTSC1</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 17

**Program Specific Degree Requirements**  
(51 semester hours, must pass all courses with a grade of "C" or higher)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM</td>
<td>General Chemistry I-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM</td>
<td>General Chemistry Laboratory I-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM</td>
<td>General Chemistry II-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM</td>
<td>General Chemistry Laboratory II-GTSC1</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one Natural Sciences course with a lab 4
Total Semester Credit Hours 31

1  Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2  This is a 5 credit course. 3 credits apply to the Essential Learning requirements and 2 credits apply to electives.
CHEM 301 Analytical Chemistry 3
CHEM 301L Analytical Chemistry Laboratory 1
CHEM 311 Organic Chemistry I 4
CHEM 311L Organic Chemistry I Laboratory 1
CHEM 312 Organic Chemistry II 4
CHEM 312L Organic Chemistry II Laboratory 1
CHEM 341 Advanced Laboratory I 2
CHEM 442 Communicating in the World of Chemistry 1

Additional Chemistry Courses
CHEM 321 Physical Chemistry I 3
CHEM 322 Physical Chemistry II 3
CHEM 351 Inorganic Chemistry I 3
CHEM 431 Instrumental Analysis 3
CHEM 431L Instrumental Analysis Laboratory 1
MATH 253 Calculus III 4

Total Semester Credit Hours 44

1 Must pass all courses with a grade of "C" or higher

Code Title Semester Credit Hours

Restricted Electives
Select 7 semester hours from the following list: 1
CHEM 300 Environmental Chemistry 1
CHEM 315 Biochemistry 1
& 315L Biochemistry Laboratory 1
CHEM 316 Biochemistry II 1
CHEM 352 Inorganic Chemistry II 1
CHEM 396 Topics 1
CHEM 397 Structured Research 1
CHEM 421 Advanced Organic Chemistry I 1
CHEM 422 Advanced Organic Chemistry II 1
CHEM 487 Formal Research 1
CHEM 494 Seminar 1
CHEM 496 Topics 1

Total Semester Credit Hours 7

1 No more than 4 semester hours can come from CHEM 397 or CHEM 487.

General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 15 semester hours; 3 hours of upper division may be needed.

Code Title Semester Credit Hours

Select electives 15

Total Semester Credit Hours 15
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

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Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

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- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

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Chemistry (Minor)

Minor: Chemistry
Program Code: M410

About This Minor . . .

Chemistry can be described as the systematic study of matter in the universe. It is often referred to as the “central science” in that it acts as the connection between many other disciplines including physics, biology, engineering, earth science, environmental science and medicine. As such, a strong background in chemistry is a wonderful complement to many other majors. A chemistry minor should be considered by any student who is interested in a career in science, medicine, patent law, forensics, or technical sales.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(24 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>CHEM 131</td>
<td>General Chemistry I-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 131L</td>
<td>General Chemistry Laboratory I-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 132</td>
<td>General Chemistry II-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 132L</td>
<td>General Chemistry Laboratory II-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Organic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311L</td>
<td>Organic Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Restricted Electives</td>
<td></td>
</tr>
<tr>
<td>CHEM 301L</td>
<td>Analytical Chemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 312L</td>
<td>Organic Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 315L</td>
<td>Biochemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 397</td>
<td>Structured Research</td>
<td></td>
</tr>
<tr>
<td>CHEM 431L</td>
<td>Instrumental Analysis Laboratory</td>
<td></td>
</tr>
</tbody>
</table>
Chemistry (Minor)

CHM 487  Formal Research

Total Semester Credit Hours  9

1 At least one semester hour must be a laboratory course from the provided list. No more than one semester hour can be from research courses (CHEM 397 or CHEM 487).

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
CIVIL ENGINEERING

Program Description
Colorado Mesa University and the University of Colorado Boulder partner to deliver a civil engineering program in its entirety in Grand Junction. Civil engineers design and supervise the construction of the buildings and infrastructure that make up our world – roads, bridges, tunnels, skyscrapers, transit systems, water treatment facilities, and offshore structures. They solve problems and meet challenges such as pollution, clean drinking water, climate change, energy and transportation needs, urban development, and community planning.

Students completing the program will be awarded a Bachelor of Science in Civil Engineering degree from CU Boulder.

Special Requirements
Students enter CMU as “pre-civil engineering” majors. They may apply to the Civil Engineering Partnership Program:

- After one year at CMU if they have completed a two course sequence in calculus and a two course sequence in physical science with As or Bs and have an overall technical GPA of 3.0 or better, or
- After completing all required lower-division coursework at CMU with a technical GPA of 3.0 or better.

Interested students can learn more about the program and admission options at coloradomesa.edu/engineering.

Contact Information
Confluence Hall
1410 North 7th Street
Grand Junction, CO, 81501
970.248.1400

Bachelors/Minors
- Civil Engineering, CMU/CU-Boulder Partnership Program (BSCE) (p. 259)

Civil Engineering, CMU/CU-Boulder Partnership Program (BSCE)
Degree: Bachelor of Science in Civil Engineering
Major: Civil Engineering
Program Code: 3454

This section provides links to information for the CMU/CU-Boulder Civil Engineering Partnership Program. An official review of your coursework will be performed by CU administration to ensure completion of all graduation requirements. The BSCE degree is conferred by the University of Colorado, Boulder.

Important information for this program:

- In order to take any Math, Science or Engineering courses, each listed prerequisite (or an equivalent course) must be completed with a grade of “C” or better.
- All engineering students must take ENGL 111 and 112 unless they meet or exceed one of the following criteria: ACT ENGL 24 or SAT Verbal 550 or AP English (Lit & Comp or Lang & Comp) 4 or IB English 4.

More information for CMU/CU-Boulder Partnership Degree in Civil Engineering (https://www.coloradomesa.edu/engineering/degrees/civil-engineering-partnership.html)
CLASSICAL STUDIES

Program Description
Classical studies provides the opportunity to explore the civilizations of ancient Greece and Rome and thus the roots of Western history, literature, and culture.

As an interdisciplinary field, classical studies encourages students to develop multiple intellectual skills and to think about the world around them from different perspectives. Current course offerings include Greco-Roman literature, mythology, history, archaeology, philosophy, political science, rhetoric, and of course, Latin and Greek. There is a significant amount of flexibility in the classical studies minor in terms of the courses one takes, but the study of ancient languages is the core of the program, and all minors must take one year of either Latin or Greek.

Classical studies is a great complement to other areas of study because a student can emphasize those aspects of classical civilization that relate to his or her primary field of study (e.g. literature, history, language, etc.). In a more general sense, the skills and perspectives one acquires are well suited for those considering graduate school or any kind of post-graduate educational program such as law school or medical school. As a result of being interdisciplinary, the classical studies minor encourages students to employ a variety of methodologies in various disciplines while still developing a cohesive body of knowledge relevant to many fields and professions. The linguistic component ensures that one has a deeper understanding of language and can thus write, speak, and think more clearly. Furthermore, the fact that a great deal of specialized legal and medical terminology is based on Latin and Greek means that a minor in classical studies is great training for someone considering any kind of legal or medical profession.

Contact Information
Department of Languages
Literature and Mass Communication
Escalante Hall 237
970.248.1687

—or—
Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Bachelors/Minors
• Classical Studies (Minor) (p. 260)

Classical Studies (Minor)
Minor: Classical Studies
Program Code: M230

About This Minor...
Classical studies explores the civilizations of ancient Greece and Rome and thus the roots of Western history, literature, and culture. As an interdisciplinary field, classical studies encourages students to develop multiple intellectual skills and to think about the world around them from different perspectives. Current course offerings include Greco-Roman literature, mythology, history, archaeology, philosophy, political science, rhetoric, and of course, Latin and Greek.

Institutional Minor Requirements
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

• A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
• Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
• At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
• At least 25 percent of the classes must be taken at CMU.
• A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
• A minor must be outside the major field of study.
• A student may earn up to five minors with any baccalaureate degree at CMU.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements
(24 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Greek and/or Latin. Select one or both of the following options: ¹</td>
<td>6-12</td>
</tr>
<tr>
<td>FLGK 111 &amp; FLGK 112</td>
<td>Introductory Greek I and Introductory Greek II</td>
<td>6-12</td>
</tr>
<tr>
<td>FLLT 111 &amp; FLLT 112</td>
<td>Introductory Latin 1 and Introductory Latin 2</td>
<td>6-12</td>
</tr>
<tr>
<td></td>
<td>Select two or three of the following:</td>
<td>6-9</td>
</tr>
<tr>
<td>ENGL 301</td>
<td>Classical Greek and Latin Literature</td>
<td></td>
</tr>
<tr>
<td>HIST 430</td>
<td>The Ancient Mediterranean World</td>
<td></td>
</tr>
<tr>
<td>ENGL 222</td>
<td>Mythology-GTAH2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>12-21</td>
</tr>
</tbody>
</table>

¹ Students must take at least six hours in one language.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Restricted Electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one to four of the following, depending on the options chosen 3-12 above:</td>
<td>3-12</td>
</tr>
<tr>
<td>POLS 452</td>
<td>Political Theory: Classical and Medieval</td>
<td>3-12</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>ENGL 335</td>
<td>The Bible as Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 370</td>
<td>Major Author 1</td>
<td></td>
</tr>
<tr>
<td>ENGL 386</td>
<td>Roots of Modern Rhetoric</td>
<td></td>
</tr>
<tr>
<td>ENGL 494</td>
<td>Seminar in Literature 1</td>
<td></td>
</tr>
<tr>
<td>FLAV 290</td>
<td>Special Studies in Foreign Languages 2</td>
<td></td>
</tr>
<tr>
<td>FLAV 390</td>
<td>Special Studies in Foreign Languages 2</td>
<td></td>
</tr>
<tr>
<td>HIST 396</td>
<td>Topics 1</td>
<td></td>
</tr>
<tr>
<td>HIST 435</td>
<td>Classical Archaeology</td>
<td></td>
</tr>
<tr>
<td>HIST 440</td>
<td>Early and Medieval Christianity</td>
<td></td>
</tr>
<tr>
<td>HNRS 396</td>
<td>Topics 1</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 3-12

1 ENGL 370, ENGL 494, HIST 396, and HNRS 396 may only count towards the Classical Studies minor if they focus on an author or topic directly related to the Greco-Roman world. Before taking one of these, students should meet with a faculty member affiliated with the classics minor in order to determine if it meets that qualification.

2 FLAV 290 and FLAV 390 are offered occasionally based on need for students who have already completed at least one year of Latin or Greek.

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.

**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
COMPUTER INFORMATION SYSTEMS

Program Description

The Bachelor of Applied Science (BAS) in Computer Information Systems combines technical skills with the business proficiency needed today. A unique program, the BAS allows students who have already earned an AAS to build upon their technical specialties with essential learning courses and junior/senior level computer information coursework. This allows associate degree holders to gain a 4-year degree in approximately four additional full-time semesters, depending upon prior coursework. Computer information systems courses include coursework in project management, systems analysis and design, database administration, networking, electronic commerce, productivity tools and decision support, as well as systems development and implementation, including programming and information systems theory. BAS students will be technically and academically prepared for management positions within information technology. Prospective students not holding an associate of applied science degree can begin their university career at CMU in a chosen field of study with a 2-year degree and then progress to a 4-year degree using the BAS.

The Bachelor of Science (BS) in Computer Information Systems is a degree required as organizations face the challenges of technology management. The program provides graduates with business management skills and computer information expertise to manage computer systems in today's organizations. As businesses increasingly rely on technology to provide a competitive advantage, employees with an understanding of both business concepts and computer systems are a necessity. Graduates of this program are employed in occupations such as systems analysts, analyst/programmers, database administrators, network administrators, web page designers, help desk specialists and information technology managers. Graduates assist businesses with creating, obtaining and maintaining computer information systems that solve problems and assist in facilitating routine business events. Computer information systems studies require students to examine computer systems from organizational, social, psychological and technical perspectives. Graduates from this program will have taken a variety of courses that were developed based on national guidelines for quality degrees in information systems.

The Associate of Arts (AA) degree provides students an overview of computer information systems and business. By earning essential learning credits, the degree also positions students for completion of a four-year degree in business. The degree program includes the Colorado Statewide General Education Core and meets the lower-division general education requirements at most public institutions in Colorado. The AA degree with an emphasis in business computer information systems, in addition to providing students with all of their essential learning, is useful in giving students a working knowledge of computer hardware and software. Common productivity tools such as presentation software, spreadsheets and database management software used in businesses are learned. If a student earns an associate's degree, the computer information systems AA provides skills that can be used in the workplace immediately.

The computer information systems minor allows students majoring in other areas to enhance their degrees with information systems knowledge. Such graduates may use their expertise to help solve computer system problems for businesses. Since many businesses rely heavily on computer systems as decision-making tools, graduates with this minor have a competitive advantage. Additionally, many employees in numerous organizations find themselves daily using computer hardware and software as productivity tools within their positions. The computer information systems minor assists students in learning skills and background information that they will need in all occupations.

The minor in managerial informatics is designed to prepare students for managerial level decision-making based on the use of information and computer technology. Today's world presents a wealth of information. Using information effectively requires insight and experience with a variety of tools. The managerial informatics minor is intended for students who are interested in expanding their knowledge and skills in the use of information and related technology. A managerial informatics minor coupled with any major can increase the employment opportunities available in a wide variety of areas.

The certificate in decision support systems is designed to expose students and business managers to the knowledge and skills needed to use computer software to solve business problems, particularly in the support of business decision making. This certificate addresses the need of today's managers to more fully manage the information systems functions of an organization. The certificate will provide students with an overview of information they would encounter if they went on to earn the minor in managerial informatics or the BBA concentration in information systems or the BS in computer information systems, each of which more fully prepares students to work in or manage the information systems functions of organizations.

The business department also offers the Bachelor of Business Administration with a concentration in business analytics.

Contact Information

Department of Business
Dominquez Hall 301
970.248.1778

Bachelors/Minors

- Computer Information Systems (BAS) (p. 262)
- Computer Information Systems (BS) (p. 265)
- Computer Information Systems (Minor) (p. 270)
- Managerial Informatics (Minor) (p. 271)

Associates

- Business Computer Information Systems, Liberal Arts (AA) (p. 267)

Certificates

- Decision Support Systems (Professional Certificate) (p. 269)

Computer Information Systems (BAS)

Degree: Bachelor of Applied Science
Major: Computer Information Systems
Program Code: 3167

About This Major . . .

The Bachelor of Applied Science in Computer Information Systems combines the technical skills and business proficiency necessary for success in today's business world. A unique program, the BAS allows
students who have already earned an associate of applied science degree to build upon their technical specialties with Essential Learning courses and junior and senior level computer information systems courses. This allows associate degree holders to gain a 4-year degree in approximately four additional full-time semesters, depending upon prior coursework.

Computer Information Systems courses to be taken include coursework in project management, systems analysis and design, database administration, networking, electronic commerce, productivity tools, decision support, systems development and implementation including programming and information systems theory. BAS students will be technically and academically prepared for leadership positions within the information technology functional areas in their chosen industries.

Prospective students not holding an associate of applied science degree can begin their college career at CMU in a chosen field of study with a 2-year degree and then progress to a 4-year degree using the BAS. This degree will provide students upward mobility in their area of employment as they move into supervision/management positions.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

Important information for this program:

- To be admitted to the B.A.S. degree, an applicant must possess an A.A.S. degree from an accredited school in computer information systems, computer programming, electronic engineering technology, information technology, network technology, telecommunications, or related area such as computer aided design or graphics design. Any exceptions to this must be approved in advance by the department BAS advisor and the academic department head. All students must meet with the BAS advisor to plan and schedule all classes.
- Requests for more than 6 hours of cooperative education internship must be approved by the advisor.
- As an entrance requirement, a student must have a proficiency in advanced computer literacy, which is defined as having taken CISB 101 (or equivalent); and CISB 260 or TECI 260 (or equivalent).

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Integrate knowledge from multiple functional areas of business to solve business problems and to develop sound business strategies. (Specialized Knowledge)
2. Apply business knowledge and skills in appropriate business contexts and transfer knowledge and skills to new business situations. (Critical Thinking)
3. Communicate clearly, appropriately, and persuasively to the business audience, both orally and in writing, including individual presentations. (Communication Fluency)
4. Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
5. Effectively work as a team. (Applied Learning)
7. Produce professional business work products. (Applied Learning)
8. Practice principle-based ethics in decision making both personally and professionally. (Applied Learning)
9. Identify, formulate, and correctly solve information systems problems. (Specialized Knowledge)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU Bachelor of Applied Science (BAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 33 upper-division credits.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements. The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Social and Behavioral Sciences**
ECON 201  Principles of Macroeconomics-GTSS1  3
ECON 202  Principles of Microeconomics-GTSS1  3

Fine Arts
Select one Fine Arts course  3

Natural Sciences
Select one Natural Sciences course  3
Select one Natural Sciences course with a lab  4

Total Semester Credit Hours  31

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2 This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to general elective credit.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Program Specific Degree Requirements
(75-76 semester hours, must earn a grade of "C" or better in each course)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISB 205</td>
<td>Advanced Business Software</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>CISB 206</td>
<td>Introduction to Business Application Programming</td>
<td></td>
</tr>
<tr>
<td>CSCI 111</td>
<td>CS1: Foundations of Computer Science</td>
<td></td>
</tr>
<tr>
<td>Other Object-Oriented Programming Course approved by advisor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CISB 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CISB 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 241</td>
<td>Introduction to Business Analysis</td>
<td></td>
</tr>
<tr>
<td>CISB 309</td>
<td>Enterprise Systems</td>
<td>3</td>
</tr>
<tr>
<td>CISB 315</td>
<td>Information Systems Infrastructure</td>
<td>3</td>
</tr>
<tr>
<td>CISB 331</td>
<td>Advanced Business Programming</td>
<td>3</td>
</tr>
<tr>
<td>CISB 410</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CISB 442</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>CISB 451</td>
<td>Database Administration</td>
<td>3</td>
</tr>
<tr>
<td>CISB 470</td>
<td>Management of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CISB 471</td>
<td>Advanced Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

CISB 341  Quantitative Decision Making
MARK 350  Marketing Research

Core Courses
36 Semester Hours taken as part of a state approved Associate of Applied Science degree
Total Semester Credit Hours  75-76

General Electives
(7-8 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td>Select additional electives</td>
<td>6-7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>7-8</td>
</tr>
</tbody>
</table>

1 All college level courses appearing on final transcript, not listed above to bring total semester hours to 120. 7-8 semester hours, 6 semester hours must be upper division.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audits on a regular basis and should discuss questions or concerns with their advisors or academic department heads. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
Computer Information Systems (BS)

Degree: Bachelor of Science  
Major: Computer Information Systems  
Program Code: 3165

About This Major . . .

The Bachelor of Science in Computer Information Systems is a degree required today as organizations face the challenges of technology management. This program provides graduates with business management skills and computer information expertise to manage computer systems in today’s organizations. Graduates of this program are employed in occupations such as systems analysts, analyst/programmers, database administrators, network administrators, web page designers, help desk specialists, and IT Managers.

Graduates assist businesses with creating, obtaining, and maintaining computer information systems that solve problems and assist in facilitating routine business events. As businesses increasingly rely on technology to provide a competitive advantage, employees with an understanding of both business concepts and computer systems are necessary. Computer information systems studies require students to examine computer systems from organizational, social, psychological, and technical perspectives. Graduates from this program will have taken a variety of courses that were developed based on national guidelines for quality degrees in information systems.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Integrate knowledge from multiple functional areas of business to solve business problems and to develop sound business strategies. (Specialized Knowledge)
2. Apply business knowledge and skills in appropriate business contexts and transfer knowledge and skills to new business situations. (Critical Thinking)
3. Communicate clearly, appropriately, and persuasively to the business audience, both orally and in writing, including individual presentations. (Communication Fluency)
4. Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
5. Effectively work as a team. (Applied Learning)
7. Produce professional business work products. (Applied Learning)
8. Practice principle-based ethics in decision making both personally and professionally. (Applied Learning)
9. Identify, formulate, and correctly solve information systems problems. (Specialized Knowledge)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-college courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
</tbody>
</table>
Select one Fine Arts course 3

Natural Sciences 3
Select one Natural Sciences course 3
Select one Natural Sciences course with a lab 4
Total Semester Credit Hours 31

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2 This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3 7 semester hours, one course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wellness Requirement</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Essential Learning Capstone 1</td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours 6</td>
<td></td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(12 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CISB 205</td>
<td>Advanced Business Software</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following courses: 3-4</td>
<td></td>
</tr>
<tr>
<td>CISB 206</td>
<td>Introduction to Business Application Programming</td>
<td></td>
</tr>
<tr>
<td>CSCI 111</td>
<td>CS1: Foundations of Computer Science</td>
<td></td>
</tr>
<tr>
<td>CISB 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours 12-13</td>
<td></td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements
(54 semester hours, must earn a grade of "C" or better in each course)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISB 101</td>
<td>Business Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>CISB 305</td>
<td>Solving Problems Using Spreadsheets</td>
<td></td>
</tr>
<tr>
<td>CISB 306</td>
<td>Solving Problems Using Databases</td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>General Elective Courses 15-16</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours 16-17</td>
<td></td>
</tr>
</tbody>
</table>

First Year
Fall Semester
Select one of the following: 3
CISB 101 | Business Information Technology            | 3                     |
CISB 305 | Solving Problems Using Spreadsheets        |                       |
CISB 306 | Solving Problems Using Databases           |                       |
ENGL 111 | English Composition-GTCO1                  | 3                     |
MATH 113 | College Algebra-GTMA1                      | 4                     |
Essential Learning - History 3
Essential Learning - Humanities 3

Spring Semester
CISB 205 | Advanced Business Software                 | 3                     |
ENGL 112 | English Composition-GTCO2                  | 3                     |
CISB 210 | Fundamentals of Information Systems         | 3                     |
Essential Learning - Fine Arts 3
### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

## Business Computer Information Systems, Liberal Arts (AA)

**Degree:** Associate of Arts  
**Major:** Liberal Arts  
**Emphasis:** Business Computer Information Systems  
**Program Code:** 2145

### About This Major . . .

The Associate of Arts (A.A.) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The A.A. is the appropriate choice for students who will take upper division coursework in the arts, humanities, or social and behavioral sciences. The degree program includes the Colorado Statewide Essential Learning Core and meets the lower-division Essential Learning requirements at most public institutions in Colorado.

The CIS A.A. degree, in addition to providing students with Essential Learning coursework is useful in giving students a working knowledge of computer hardware and software. Common productivity tools such as presentation software, spreadsheets and database management software used in businesses are presented. This skill set will give students an edge in future classes pursued. If a student graduates with the associate's degree, the CIS A.A. provides skills that can be used in the workplace immediately.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and
specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Locate, gather and organize information on an assigned computer information topic. (Specialized Knowledge)
2. Recognize mathematical concepts and methods in relation to computer information systems issues. (Quantitative Fluency)
3. Communicate clearly and appropriately basic computer information systems information. (Communication Fluency)
4. Describe beginning computer information systems concepts in appropriate business contexts. (Critical Thinking)

**Institutional Degree Requirements**
The following institutional degree requirements apply to all CMU or WCCC Associate of Arts (AA) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours total.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade of "C" or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado's guaranteed transfer program.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 15 semester credit hours for an AA degree. A maximum of 6 of the 15 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1 2</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences 3</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 31

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3 7 semester hours, one course must include a lab.

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 2

**Program Specific Degree Requirements**
(21 semester hours, must maintain a 2.00 cumulative GPA or higher in all CMU coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>CISB 205</td>
<td>Advanced Business Software</td>
<td>3</td>
</tr>
<tr>
<td>CISB 101</td>
<td>Business Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>TECI 260</td>
<td>Information Technology Hardware and System Software</td>
<td>3</td>
</tr>
<tr>
<td>CISB 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CISB 206</td>
<td>Introduction to Business Application Programming</td>
<td>3</td>
</tr>
</tbody>
</table>
CSCI 111 | CS1: Foundations of Computer Science \(^1\)
---|---
Object Oriented Programming Course approved by CIS advisor

**Total Semester Credit Hours** 21

\(^1\) Course requires additional pre-requisites beyond those required for the degree.

**General Electives**

(6 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td>Select additional electives</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>6</strong></td>
<td></td>
</tr>
</tbody>
</table>

**Course Title** | **Semester Credit Hours**
---|---
**First Year**
Fall Semester
ENGL 111 | English Composition-GTCO1         | 3                     |
CISB 101 | Business Information Technology   | 3                     |
MATH 113 | College Algebra-GTMA1             | 4                     |
Essential Learning - Social and Behavioral Sciences | 3
KINE 100 | Health and Wellness               | 1                     |
Wellness Requirement - Activities Course           | 1                     |
**Semester Credit Hours** | 15

Spring Semester
ENGL 112 | English Composition-GTCO2         | 3                     |
CISB 205 | Advanced Business Software        | 3                     |
Essential Learning - History                       | 3                     |
Essential Learning - Natural Science without lab   | 3                     |
Essential Learning - Humanities                    | 3                     |
**Semester Credit Hours** | 15

Second Year
Fall Semester
ACCT 201 | Principles of Financial Accounting| 3                     |
BUGB 211 | Business Communications           | 3                     |
Select one of the following courses:               | 3                     |
CISB 206 | Introduction to Business Application Programming | 3
CSCI 111 | CS1: Foundations of Computer Science | 3
Object Oriented Programming Course approved by CIS advisor
Essential Learning - Fine Arts                      | 3                     |
General Elective                                    | 3                     |
**Semester Credit Hours** | 15

Spring Semester
TECI 260 | Information Technology Hardware and System Software | 3
CISB 210 | Fundamentals of Information Systems | 3
Essential Learning - Natural Science with lab       | 4                     |
Essential Learning - Social and Behavioral Sciences | 3                     |
General Elective                                    | 2                     |
**Semester Credit Hours** | 15
**Total Semester Credit Hours** | 60

Students that intend to continue with Colorado Mesa University should take ESSL 290 and ESSL 200 during the final semester of their Associate of Arts work.

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

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**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Decision Support Systems (Professional Certificate)**

Award: Professional Certificate
Program of Study: Decision Support Systems
Program Code: 1170

**About This Major . . .**

The Certificate in Decision Support Systems is designed to expose students and business managers to the knowledge and skills needed to use computer software to solve business problems, particularly to support decision making. The certificate will provide students with an overview of information they would encounter if they went on to earn the Minor in Managerial Informatics or the BBA Concentration in Information Systems or the BS in Computer Information Systems, each of which more fully prepares students to work in or manage the information systems functions of organizations.
Institutional Certificate Requirements

The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Primarily 300-400 level courses.
- At least fifty percent of the credit hours must be taken at CMU.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(9 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISB 205</td>
<td>Advanced Business Software</td>
<td>3</td>
</tr>
<tr>
<td>CISB 305</td>
<td>Solving Problems Using Spreadsheets</td>
<td>3</td>
</tr>
<tr>
<td>CISB 306</td>
<td>Solving Problems Using Databases</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
<td><strong>9</strong></td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Computer Information Systems (Minor)

Minor: Computer Information Systems
Program Code: M751

About This Minor... 

The CIS Minor allows students majoring in other subjects to enhance their degree with information systems knowledge. Graduates may use their expertise to help solve computer system problems for businesses. Since many businesses rely heavily on computer systems as decision-making tools, graduates with this minor will have a competitive advantage over those without it when applying for positions in many organizations. This minor may also give students an advantage when attempting to advance within an organization.

Additionally, many employees in numerous organizations find themselves daily using computer hardware and software as productivity tools within their positions. The CIS minor assists students in learning skills and background information that they will need in all occupations.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.
A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.

Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.

At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.

At least 25 percent of the classes must be taken at CMU.

A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.

A minor must be outside the major field of study.

A student may earn up to five minors with any baccalaureate degree at CMU.

The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.

See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements
(21 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISB 205</td>
<td>Advanced Business Software ¹</td>
<td>3</td>
</tr>
<tr>
<td>CISB 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CISB 309</td>
<td>Enterprise Systems</td>
<td>3</td>
</tr>
<tr>
<td>CISB 315</td>
<td>Information Systems Infrastructure</td>
<td>3</td>
</tr>
<tr>
<td>CISB 410</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CISB 470</td>
<td>Management of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CISB 305</td>
<td>Solving Problems Using Spreadsheets</td>
<td>3</td>
</tr>
<tr>
<td>CISB 306</td>
<td>Solving Problems Using Databases</td>
<td></td>
</tr>
<tr>
<td>CISB 442</td>
<td>Systems Analysis and Design ¹</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 21

¹ Courses require additional prerequisites beyond those required for the minor.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Managerial Informatics (Minor)

Minor: Managerial Informatics
Program Code: M145

About This Minor . . .

The minor in Managerial Informatics is designed to prepare students for managerial level decision making based on the use of information and computer technology. Today’s world presents a wealth of information. Using information effectively requires insight and talent with a variety of tools. The Managerial Informatics minor is intended for students who are interested in expanding their knowledge and skills in the use of information and related technology. A Managerial Informatics minor coupled with any major can increase the employment opportunities available in a wide variety of areas.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements
(21 semester hours)
Managerial Informatics (Minor)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>CISB 210</td>
<td>Fundamentals of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CISB 205</td>
<td>Advanced Business Software</td>
<td>3</td>
</tr>
<tr>
<td>CISB 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CISB 305</td>
<td>Solving Problems Using Spreadsheets</td>
<td>3</td>
</tr>
<tr>
<td>CISB 306</td>
<td>Solving Problems Using Databases</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
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</tr>
</tbody>
</table>

<table>
<thead>
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<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Restricted Electives</td>
<td></td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>CISB 392</td>
<td>Information Systems Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>CISB 341</td>
<td>Quantitative Decision Making ¹</td>
<td></td>
</tr>
<tr>
<td>MARK 350</td>
<td>Marketing Research</td>
<td></td>
</tr>
<tr>
<td>CISB 410</td>
<td>Project Management</td>
<td></td>
</tr>
<tr>
<td>CISB 442</td>
<td>Systems Analysis and Design</td>
<td></td>
</tr>
<tr>
<td>CISB 470</td>
<td>Management of Information Systems</td>
<td></td>
</tr>
<tr>
<td>Any other CISB 200, 300, or 400 level course</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

¹ Course requires additional course prerequisites beyond those required for the minor.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
COMPUTER SCIENCE

Program Description

Computer science is the study of algorithms and the issues involved in implementing them. The bachelor's degree in computer science includes core courses in algorithms, data structures, logic, programming languages, software design and advanced mathematics. Electives in web page design, artificial intelligence, robotics, computer graphics, video game design, databases, security, multimedia and networks are also possible. The program and course offerings are constantly evolving to keep up with the latest changes in the computer science field. The small class sizes at Colorado Mesa University allow for close interaction between faculty and students, with independent research projects and internships available.

A wide variety of professional and academic opportunities exist for graduates in the computer science field, including software engineering, software testing, computational finance, game design, computer graphics, robotics, artificial intelligence, internet systems and technology, security, hardware development, animation, medicine, biotechnology, business management and consulting and modeling, as well as master's and doctoral studies in computing-related fields. Graduates have continued on to advanced degrees in top tier schools and are employed at IBM, Microsoft, Northrup-Grumann, Lockheed-Martin and many other technical companies.

The Associate of Science with an emphasis in computer science includes courses in web page design, various programming languages, data structures and computer architecture. While the associate's degree prepares students to complete a Bachelor of Science in Computer Science (which is strongly recommended), employment opportunities are open to the successful graduate, including positions such as web developers, computer operators and technical support specialists.

A minor in computer science is an excellent enhancement to degrees in the many fields which make extensive use of computer software, such as engineering, physics and mathematics, but also for non-science fields such as graphic arts, education or sociology. The degree prepares students to understand computer science foundations in software development and in hardware, as well as common application software development such as database software, graphical user interfaces and video game design.

The Professional Certificate in Web Application Development is designed for those who wish to develop in this popular field, and who may be either active professionals or new students to the field. The degree will prepare students in popular web programming languages such as JavaScript, as well as preparing the student to work with popular database programs necessary for most web applications today.

Contact Information

Department of Computer Science
Mathematics and Statistics
Wubben Science 132
970.248.1407

Associates

- Computer Science, Liberal Arts (AS) (p. 276)

Bachelors/Minors

- Computer Science (BS) (p. 273)
- Computer Science (Minor) (p. 278)

Certificates

- Web Application Development (Professional Certificate) (p. 279)

Computer Science (BS)

Degree: Bachelor of Science
Major: Computer Science
Program Code: 3420

About This Major . . .

Computer science is the study of algorithms and the issues involved in implementing them. The program includes core courses in algorithms, data structures, logic, programming languages, software design, and advanced mathematics. Electives in web page design, artificial intelligence, robotics, computer graphics, video game design, databases, security, multimedia, and networks are also possible. The program and course offerings are constantly evolving to keep up with the latest changes in the Computer Science field. The small class sizes allow for close interaction between faculty and students, with independent research projects and internships available.

A wide variety of exciting professional and academic opportunities exist for graduates of computer science including software engineering, software testing, computational finance, game design, computer graphics, robotics, artificial intelligence, internet systems and technology, security, hardware development, animation, medicine, biotechnology, business management and consulting, modeling, as well as master's and doctoral studies in computing-related fields. Our graduates have continued on to advanced degrees in top-tier schools and are employed at IBM, Microsoft, Northrup Grumann, Lockheed-Martin, and many other technical companies.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html and/or http://www.coloradomesa.edu/cs.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Write programs in multiple programming languages and be able to translate concepts between languages. (Applied Learning)
2. Develop the technical specification, and develop, design and test a software solution for a given problem. (Communication Fluency Quantitative Fluency)
3. Analyze and measure competing hardware and software components and defend a choice for a given situation. (Critical Thinking)
4. Independently learn and use new technologies. (Specialized Knowledge)
5. Work in teams to solve large scale problems. (Applied Learning)
**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 122</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 135</td>
<td>Engineering Calculus I</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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</tr>
<tr>
<td>Select one Humanities course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
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<td>3</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course</td>
<td></td>
<td>3</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Math 151</td>
<td>Calculus I-GT-MA1</td>
<td>1</td>
</tr>
<tr>
<td>or MATH 135</td>
<td>Engineering Calculus I</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td>Select one History course</td>
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</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Fine Arts course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 31

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 MATH 151 is 5 credit hours, and MATH 135 is 4 credit hours. Depending on the course selected, 3 credits will apply to the Essential Learning requirements and 1 or 2 credits will apply to Foundation Courses.
3 One course must include a lab.

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning Capstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

**Foundation Courses**

(16-18 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCI 111</td>
<td>CS1: Foundations of Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 112</td>
<td>CS2: Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>1-2</td>
</tr>
<tr>
<td>or MATH 135</td>
<td>Engineering Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>4-5</td>
</tr>
<tr>
<td>or MATH 136</td>
<td>Engineering Calculus II</td>
<td></td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 16-18

**Program Specific Degree Requirements**

(41-42 semester hours, 2.5 GPA is required in major courses, no more than one “D” may be used in completing major requirements)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCI 111</td>
<td>CS1: Foundations of Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 112</td>
<td>CS2: Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>1-2</td>
</tr>
<tr>
<td>or MATH 135</td>
<td>Engineering Calculus I</td>
<td></td>
</tr>
<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>4-5</td>
</tr>
<tr>
<td>or MATH 136</td>
<td>Engineering Calculus II</td>
<td></td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 16-18

**Computer Science Core**
CSCI 241  Computer Architecture and Assembly Language  4
CSCI 250  CS3: Introduction to Algorithms  3
CSCI 330  Programming Languages  3
CSCI 470  Operating Systems Design  3
CSCI 484  Computer Networks  3
CSCI 490  Software Engineering  3
MATH 369  Discrete Structures I  3
CSCI 310  Advanced Programming  4

Total Semester Credit Hours  26

1  CSCI 310 is offered for different languages for 1-3 credit hours.
   A student may meet the required in any combination number of
   languages/courses/hours to reach a total minimum of 4 hours taken.
   No language may be counted for credit more than once.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 306</td>
<td>Web Page Design III</td>
<td></td>
</tr>
<tr>
<td>CSCI 322</td>
<td>Embedded Systems</td>
<td></td>
</tr>
<tr>
<td>CSCI 333</td>
<td>UNIX Operating Systems</td>
<td></td>
</tr>
<tr>
<td>CSCI 337</td>
<td>User Interface Design</td>
<td></td>
</tr>
<tr>
<td>CSCI 345</td>
<td>Video Game Design</td>
<td></td>
</tr>
<tr>
<td>CSCI 370</td>
<td>Computer Security</td>
<td></td>
</tr>
<tr>
<td>CSCI 375</td>
<td>Object Oriented Programming</td>
<td></td>
</tr>
<tr>
<td>CSCI 380</td>
<td>Operations Research</td>
<td></td>
</tr>
<tr>
<td>CSCI 445</td>
<td>Computer Graphics</td>
<td></td>
</tr>
<tr>
<td>CSCI 450</td>
<td>Compiler Structure</td>
<td></td>
</tr>
<tr>
<td>CSCI 460</td>
<td>Database Design</td>
<td></td>
</tr>
<tr>
<td>CSCI 480</td>
<td>Theory of Algorithms</td>
<td></td>
</tr>
<tr>
<td>CSCI 486</td>
<td>Artificial Intelligence</td>
<td></td>
</tr>
<tr>
<td>MATH 361</td>
<td>Numerical Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours  15-16

Restricted Electives

Computer Science Choices

Select five of the following:  15-16

CSCI 306 Web Page Design III
CSCI 322 Embedded Systems
CSCI 333 UNIX Operating Systems
CSCI 337 User Interface Design
CSCI 345 Video Game Design
CSCI 370 Computer Security
CSCI 375 Object Oriented Programming
CSCI 380 Operations Research
CSCI 445 Computer Graphics
CSCI 450 Compiler Structure
CSCI 460 Database Design
CSCI 480 Theory of Algorithms
CSCI 486 Artificial Intelligence
MATH 361 Numerical Analysis

Total Semester Credit Hours  15-16

General Electives

All college level courses appearing on your final transcript, not listed
above that will bring your total semester hours to 120 hours. 23-26
semester hours, 5-6 hours of upper division may be needed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
<td>23-26</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours  23-26

First Year

Fall Semester

CSCI 111  CS1: Foundations of Computer Science  4
MATH 151  or MATH 135  Calculus I/GTMA1 or Engineering Calculus I  4-5
ENGL 111  English Composition-GTMA1  3

Spring Semester

CSCI 250  CS3: Introduction to Algorithms  3
MATH 152  or MATH 136  Calculus II or Engineering Calculus II  4-5
ENGL 112  English Composition-GTMA1  3

Second Year

Fall Semester

CSCI 241  Computer Architecture and Assembly Language  4
STAT 200  Probability and Statistics-GTMA1  3
ENSL 290  Maverick Milestone  3
ENSL 200  Essential Speech  1
CSCI 310  Advanced Programming:  1
Essential Learning - Natural Science  3

Spring Semester

CSCI 241  Computer Architecture and Assembly Language  4
CSCI 330  Programming Languages  3
CSCI 470  Operating Systems Design  3
CSCI 490  Software Engineering  3

Total Semester Credit Hours  15-16

Third Year

Fall Semester

Computer Science Choice  3
Computer Science Choice  3
Electives  6

Spring Semester

Computer Science Choice  3
Computer Science Choice  3
Electives  5-6
MATH 369  Discrete Structures I  3

Total Semester Credit Hours  15

Fourth Year

Fall Semester

Computer Science Choice  3
Computer Science Choice  3
CSCI 484  Computer Networks  3
Electives  6-7

Spring Semester

CSCI 470  Operating Systems Design  3
CSCI 490  Software Engineering  3
Computer Science Choice  3
Electives  2-4

Total Semester Credit Hours  12-13

Total Semester Credit Hours  117-122

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for
informational purposes to help determine what courses and associated
requirements are needed to earn a degree. The suggested course
sequencing outlines how students could finish degree requirements.
Some courses are critical to complete in specific semesters, while others
may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Computer Science, Liberal Arts (AS)

Degree: Associate of Science
Major: Liberal Arts
Emphasis: Computer Science
Program Code: 2421

About This Major . . .

Computer science is the study of algorithms and the issues involved in implementing them. The Computer Science Associates Degree includes courses in web page design, various programming languages, data structures and computer architecture. While the degree prepares students to complete a BS in Computer Science (which is strongly recommended), employment opportunities are open to the successful graduate, including positions such as web development, computer operators, and/or technical support positions.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html and/or http://www.coloradomesa.edu/cs.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Write programs in a general purpose programming language (Specialized Knowledge/Applied Learning)
2. Develop a software solution to a problem given a technical specification (Specialized Knowledge)
3. Demonstrate an understanding of computer hardware (Specialized Knowledge)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU or WCCC Associate of Science (AS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours total.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade of “C” or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado’s guaranteed transfer program.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 15 semester credit hours for an associate of science degree. A maximum of 6 of the 15 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1 2</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one History course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Humanities
Select one Humanities course 3

Social and Behavioral Sciences
Select one Social and Behavioral Sciences course 3
Select one Social and Behavioral Sciences course 3

Fine Arts
Select one Fine Arts course 3

Natural Sciences 3
Select one Natural Sciences course 3
Select one Natural Sciences course with a lab 4

Total Semester Credit Hours 31

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3 7 semester hours, one course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wellness Requirement</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>2</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements

(27 semester hours)
Required for this degree:
• 2.50 cumulative GPA or higher in all CMU coursework and in coursework toward major content area.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core Classes</td>
<td></td>
</tr>
<tr>
<td>CSCI 111</td>
<td>CS1: Foundations of Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 112</td>
<td>CS2: Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 206</td>
<td>Web Page Design II</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 241</td>
<td>Computer Architecture and Assembly Language</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 250</td>
<td>CS3: Introduction to Algorithms</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following courses:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CSCI 130</td>
<td>Introduction to Engineering Computer Science</td>
</tr>
<tr>
<td></td>
<td>CISB 205</td>
<td>Advanced Business Software</td>
</tr>
<tr>
<td></td>
<td>CSCI 310</td>
<td>Advanced Programming. 1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>21</td>
</tr>
</tbody>
</table>

General Electives
(6 Semester Hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
</tbody>
</table>

Electives 5

Total Semester Credit Hours 6

1 MATH 119, MATH 151/MATH 135, and/or MATH 152/MATH 136 are strongly recommended, particularly for those students who are considering going on to the Bachelor of Science in Computer Science degree.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First Year</td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 111</td>
<td>CS1: Foundations of Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Computer Science Choice</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CSCI 112</td>
<td>CS2: Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Second Year</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CSCI 250</td>
<td>CS3: Introduction to Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Natural Science with lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Wellness Requirement - Activities Course</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>CSCI 206</td>
<td>Web Page Design II</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 241</td>
<td>Computer Architecture and Assembly Language</td>
<td>4</td>
</tr>
<tr>
<td>Essential Learning - Natural Science without lab</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>15</td>
</tr>
</tbody>
</table>

Students that intend to continue with Colorado Mesa University should take ESSL 290 and ESSL 200 during the final semester of their Associate of Science work.

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential.
in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Computer Science (Minor)

Minor: Computer Science
Program Code: M450

About This Minor...  

Computer science is the study of algorithms and the issues involved in implementing them. A Minor in Computer Science is an excellent enhancement to degrees in the many fields which make extensive use of computer software, such as engineering, physics, and mathematics, but also for non-science fields such as graphic arts, education, or sociology. The degree prepares students to understand computer science foundations in software development and in hardware, as well as common application software development such as database software, graphical user interfaces, or in video game design.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(23-24 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 111</td>
<td>CS1: Foundations of Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 112</td>
<td>CS2: Data Structures</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 250</td>
<td>CS3: Introduction to Algorithms</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3-4</td>
<td></td>
</tr>
<tr>
<td>CSCI 241</td>
<td>Computer Architecture and Assembly Language</td>
<td></td>
</tr>
<tr>
<td>CSCI 206</td>
<td>Web Page Design II</td>
<td></td>
</tr>
<tr>
<td>CSCI 130</td>
<td>Introduction to Engineering Computer Science</td>
<td></td>
</tr>
<tr>
<td>Select three of the following:</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>CSCI 306</td>
<td>Web Page Design III</td>
<td></td>
</tr>
<tr>
<td>CSCI 310</td>
<td>Advanced Programming: 1</td>
<td></td>
</tr>
<tr>
<td>CSCI 322</td>
<td>Embedded Systems</td>
<td></td>
</tr>
<tr>
<td>CSCI 333</td>
<td>UNIX Operating Systems</td>
<td></td>
</tr>
<tr>
<td>CSCI 337</td>
<td>User Interface Design</td>
<td></td>
</tr>
<tr>
<td>CSCI 375</td>
<td>Object Oriented Programming</td>
<td></td>
</tr>
<tr>
<td>CSCI 460</td>
<td>Database Design</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 23-24

1  CSCI 310 is offered for different languages for 1-3 credit hours. A student may meet the required in any combination number of languages/courses/hours, to reach a total minimum of 3 hours taken. No language may be counted for credit more than once.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their
advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Web Application Development (Professional Certificate)**

Award: Professional Certificate  
Program of Study: Web Application Development  
Program Code: 1540

**About This Program...**

The certificate in Web Application Development is designed to provide students with the knowledge and skills needed to build modern web applications. The program’s goal is to provide a hands-on degree in web application development to meet the growing needs and demands from various industries.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Identify strengths and weaknesses of competing web application tools, languages, frameworks and defend a choice for a given situation. (Critical Thinking)
2. Write back-end server-side code for web applications using SQL and NoSQL and configure web and database servers. (Applied Learning)
3. Design and develop secure and modern web applications. (Applied Learning)
4. Demonstrate clear and effective communication on the design of web applications. (Communication Fluency)
5. Demonstrate independent learning and use of new technologies in web application design. (Specialized Knowledge)

**Institutional Degree Requirements**

The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Primarily 300-400 level courses.
- At least fifty percent of the credit hours must be taken at CMU.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Degree Requirements**

(16 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 206</td>
<td>Web Page Design II ¹</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 260</td>
<td>Introduction to Database</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 306</td>
<td>Web Page Design III</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 310</td>
<td>Advanced Programming: (Python) ²</td>
<td>2</td>
</tr>
<tr>
<td>CSCI 310</td>
<td>Advanced Programming: (Data Sciences with Python)</td>
<td>2</td>
</tr>
<tr>
<td>CSCI 337</td>
<td>User Interface Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 16

¹ It is assumed that students are familiar with basic HTML and CSS; otherwise the students will need to take CSCI 106.

² Students who have not taken any programming classes may substitute with CSCI 110/CSCI 110L - Beginning Programming with Python and Lab.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 206</td>
<td>Web Page Design II ¹</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 260</td>
<td>Introduction to Database</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>6</td>
</tr>
<tr>
<td>CSCI 306</td>
<td>Web Page Design III</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 310</td>
<td>Advanced Programming: (Python) ²</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>5</td>
</tr>
<tr>
<td>CSCI 310</td>
<td>Advanced Programming: (Data Science with Python)</td>
<td>2</td>
</tr>
<tr>
<td>CSCI 337</td>
<td>User Interface Design</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>16</td>
</tr>
</tbody>
</table>

¹ It is assumed that students are familiar with basic HTML and CSS; otherwise the students will need to take CSCI 106.

² Students who have not taken any programming classes may substitute with CSCI 110/CSCI 110L - Beginning Programming with Python and Lab.

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses.
and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.
**COMMUNICATION STUDIES**

**Program Description**
The Communication Studies minor offers a range of courses focusing on a wide variety of communication aspects and is an excellent complement to any major. This minor will enhance your resume and open up many employment opportunities. In a survey of 480 companies and public organizations, communication skills ranked FIRST among the personal qualities of college graduates sought by employers. Presenting and persuading, logic and listening, understanding and relating; through diverse real-life applications, this minor is one that will truly make a positive difference in your personal and professional lives.

**Contact Information**
Department of Theatre and Arts
Moss Performing Arts Center 141
970.248.1233

**Bachelors/Minors**
- Communication Studies (Minor) (p. 281)

**Communication Studies (Minor)**
Minor: Communication Studies
Program Code: M251

**About This Minor. . .**
The Communication Studies minor offers a range of courses focusing on a wide variety of communication aspects and is an excellent complement to any major. This minor will enhance your resume and open up many employment opportunities. In a survey of 480 companies and public organizations, communication skills ranked FIRST among the personal qualities of college graduates sought by employers. Presenting and persuading, logic and listening, understanding and relating; through diverse real-life applications, this minor is one that will truly make a positive difference in your personal and professional lives.

**Institutional Minor Requirements**
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.

- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Minor Requirements**
(18 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 203</td>
<td>Persuasion</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 308</td>
<td>Argumentation and Debate</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>SPCH 112</td>
<td>Voice and Diction</td>
<td></td>
</tr>
<tr>
<td>SPCH 303</td>
<td>Nonverbal Communication</td>
<td></td>
</tr>
<tr>
<td>SPCH 304</td>
<td>Communication and Conflict</td>
<td></td>
</tr>
<tr>
<td>SPCH 305</td>
<td>Communication: Culture, Diversity and Gender</td>
<td></td>
</tr>
<tr>
<td>SPCH 306</td>
<td>Communication and Leadership</td>
<td></td>
</tr>
<tr>
<td>THEA 403</td>
<td>Methods of Teaching Drama and Speech</td>
<td></td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.

**Graduation Process**
A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
CONSTRUCTION ELECTRICAL

Program Description
The AAS degree in Construction Electrical is designed to prepare students for a wide range of opportunities in the construction electrical field. The curriculum incorporates courses in building materials, estimating, planning and scheduling, installations, codes, safety, tools, calculations, and print reading, as well as Essential Learning courses that develop supervisory skills. Career options include obtaining a position as an apprentice electrician, journeyman, electrician, electrical installer, or maintenance and repair electrician.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
• Construction Electrical (AAS) (p. 282)

Certificates
• Construction Electrical (Technical Certificate) (p. 284)

Construction Electrical (AAS)
Degree: Associate of Applied Science
Major: Construction Electrical
Program Code: 1392

About This Major . . .
The A.A.S. degree in Construction Electrical is designed to prepare students for a wide range of opportunities in the Construction electrical field. The curriculum incorporates courses in building materials, estimating, planning and scheduling, installations, codes, safety, tools, calculations, and print reading. Essential Learning courses that develop supervisory skills. Career options include obtaining a position as an apprentice electrician, journeyman, electrician, electrical installer, or maintenance and repair electrician.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a construction electrician. (communication fluency)
2. Apply Mathematical concepts and practices that are required to properly calculate electrical formulas, and linear measurements. (quantitative fluency)
3. Evaluate evidence discovered during the diagnosis/troubleshooting of electrical systems and apply those findings to strategies to properly repair these systems. (critical thinking)
4. Describe the scope and application of principle features of the field of study, including core practices of a construction electrician. (applied learning)
5. Demonstrate personal and professional ethical behavior as applied to a construction electrician. (specialized knowledge)
6. Demonstrate mastery of the current terminology in the construction electrician industry. (specialized knowledge)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 60 semester hours minimum.
• Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

Specific to this program:
• 63 semester hours total for the AAS, Construction Electrical.
• A minimum of 16 credits taken at CMU in no fewer than two semesters.

Essential Learning Requirements
(15 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>
Other Essential Learning Core Courses
Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course
3
Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course
3
Total Semester Credit Hours 15

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wellness Requirement</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>2</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements
(46 semester hours, must earn a grade of "C" or better in each course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Required Courses</td>
<td></td>
</tr>
<tr>
<td>ELCE 102</td>
<td>Electrical Blueprint Reading</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 110</td>
<td>House Wiring</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 120</td>
<td>Commercial Wiring</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 124</td>
<td>Electrical Safety</td>
<td>1</td>
</tr>
<tr>
<td>ELCE 130</td>
<td>National Electrical Code I</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 135</td>
<td>National Electrical Code II</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 144</td>
<td>Grounding And Bonding</td>
<td>1</td>
</tr>
<tr>
<td>ELCE 150</td>
<td>DC Circuit Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 155</td>
<td>AC Circuit Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 167</td>
<td>Electrical Maintenance</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 220</td>
<td>Industrial Controls</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 225</td>
<td>Introduction to PLCs</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 229</td>
<td>AC/DC Variable Speed Drive</td>
<td>2</td>
</tr>
<tr>
<td>ELCE 263</td>
<td>Specific Wiring for Structured Cabling Systems</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>46</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
Construction Electrical (Technical Certificate)

Degree: Technical Certificate  
Program of Study: Construction Electrical  
Program Code: 1316

About This Major . . .
This certificate in Construction Electrical is designed to prepare students for an apprenticeship electrician opportunity in the Construction electrical field. The curriculum incorporates courses in building materials, installations, codes, safety, tools, calculations, and print reading. Career options include obtaining a position as an: apprentice electrician, or electrical installer.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a construction electrician. (communication fluency)
2. Apply Mathematical concepts and practices that are required to properly calculate electrical formulas, and linear measurements. (quantitative fluency)
3. Evaluate evidence discovered during the diagnosis/troubleshooting of electrical systems and apply those findings to strategies to properly repair these systems. (critical thinking)
4. Describe the scope and application of principle features of the field of study, including core practices of a construction electrician. (applied learning)
5. Demonstrate personal and professional ethical behavior as applied to a construction electrician. (specialized knowledge)
6. Demonstrate mastery of the current terminology in the construction electrician industry. (specialized knowledge)

Institutional Certificate Requirements
The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than "C" will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(30 semester hours, must earn a grade of “C” or better in each course and maintain a 2.00 cumulative GPA or higher in coursework.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELCE 102</td>
<td>Electrical Blueprint Reading</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 110</td>
<td>House Wiring</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 120</td>
<td>Commercial Wiring</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 124</td>
<td>Electrical Safety</td>
<td>1</td>
</tr>
<tr>
<td>ELCE 130</td>
<td>National Electrical Code I</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 135</td>
<td>National Electrical Code II</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 144</td>
<td>Grounding And Bonding</td>
<td>1</td>
</tr>
<tr>
<td>ELCE 155</td>
<td>AC Circuit Fundamentals</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 220</td>
<td>Industrial Controls</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 30

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the
DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
CONSTRUCTION MANAGEMENT

Program Description

Construction managers plan, direct and coordinate a wide variety of construction projects, including the building of all types of residential, commercial and industrial structures, and roads and bridges. Construction managers coordinate and supervise the construction process from the conceptual development stage through final construction, ensuring the project is completed on time and within budget. They are salaried or self-employed managers who oversee construction supervisors and workers. They are also responsible for the safety of the work environment. Potential majors must be comfortable with mathematics, technical instruction, physical science, computers and software programs. They should work well under pressure and have good oral and written communication skills. This degree is intended to provide students with the needed knowledge, skills and abilities to be successful in this fast-paced challenging environment. Graduates of the construction management program will possess an OSHA 10-hour safety card upon graduation.

Contact Information

Confluence Hall
1410 North 7th Street
Grand Junction, CO, 81501
970.248.1400

Bachelors/Minors

- Bachelor of Science Construction Management + Master of Business Administration (3+2) (p. 286)
- Construction Management (BS) (p. 286)

Bachelor of Science Construction Management + Master of Business Administration (3+2)

At Colorado Mesa University the Bachelor of Science degree in Construction Management and Masters of Business Administration 3+2 program is designed to prepare students with knowledge and skills required to be successful managers and leaders in a challenging and rapidly changing construction industry.

Construction Management is the discipline of planning, organizing, directing and controlling the labor, material and equipment required to construct and deliver a completed residential, commercial, heavy civil or industrial construction project to a private or public owner. Construction management is a team effort with each participant working to achieve the project objectives of delivering the project on or ahead of schedule, at or under budget, achieving the required level of standards and quality, maintaining a safe project site, and having a minimal impact on the natural environment.

We are affiliated with Western Colorado Community College (WCCC) which offers an Associates of Applied Science (A.A.S.) degree in Construction Technology (https://www.coloradomesa.edu/wccc/programs/construction.html). The Construction Management program has been articulated with WCCC’s Construction Technology program, allowing a student with an earned A.A.S. degree to easily transition into the bachelor of science degree in construction management at Colorado Mesa University. For more information about the Construction Management Program please see Construction Management Program Information (https://coloradomesa.edu/engineering/degrees/construction-management).

This program is also the undergraduate component of the 3+2 program, in which students can earn a Bachelor of Science in Construction Management and a Master of Business Administration (MBA, as described below) in five years. Through careful planning and coordination students can complete their four-year degree and their graduate degree simultaneously. For more information please see 3 + 2 MBA Program Information (https://www.coloradomesa.edu/business/degrees/mba/3+2-program-.html).

The Colorado Mesa University Master of Business Administration (MBA) degree is a challenging program designed to prepare graduates for the changing business world. The degree is awarded after successful completion of 36-45 semester hours of rigorous study. The program is designed to provide the student with a broad background in business while allowing the student to focus on a specified area of study, if desired. To this end, students acquire knowledge of management operations; an appreciation of the interrelationships involved in business; an understanding of the economic, political and social environment in which businesses function; and behavioral skills that are essential in the manager’s role in the implementation of business decisions. The MBA program endeavors to provide an atmosphere conducive to the development of each student’s ability to think in a creative manner and to effectively problem solve. The program makes extensive use of seminars, group projects, case studies and independent research. More information about our MBA Program can be found at MBA Program Information (https://www.coloradomesa.edu/business/degrees/mba).

Construction Management (BS)

Degree: Bachelor of Science
Major: Construction Management
Program Code: 3180

About This Major . . .

Construction managers plan, direct, and coordinate a wide variety of construction projects, including the building of all types of residential, commercial and industrial structures, roads, and bridges. They are salaried or self-employed managers who oversee construction supervisors and workers. Construction managers coordinate and supervise the construction process from the conceptual development stage through final construction, ensuring the project is completed on time and within budget. They are also responsible for the safety of the work environment. Graduates of the Construction Management program will possess an OSHA 10-hour safety card upon graduation.

Potential majors must be comfortable with mathematics, technical instruction, physical science, computers, and software programs. They should work well under pressure and have good oral and written communication skills. They are managers of processes and people and must excel in both technical and human interaction skills.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html
All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business knowledge and skills in appropriate business contexts and transfer knowledge and skills to new business situations. (Critical Thinking)
2. Produce professional business work products, independently and working as a team. (Applied Learning)
3. Communicate clearly, appropriately, and persuasively to the business audience, both orally and in writing. (Communication Fluency)
4. Integrate knowledge from multiple functional areas of business to solve business problems and to develop sound business strategies. (Specialized Knowledge)
5. Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
6. Properly and appropriately use information systems tools and techniques within functional business areas. (Applied Learning)
7. Identify, formulate, and solve construction related problems by applying mathematics, science, and business principles. (Specialized Knowledge)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

1. Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2. This is a 4 semester credit hour course. 3 credits apply to the Essential Learning requirements and 1 credit applies to general elective credit.
3. One course must include a lab.

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.
### Foundation Courses

(27 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 130</td>
<td>Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>CONC 101</td>
<td>Construction Safety and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>CONC 116</td>
<td>Building Materials</td>
<td>3</td>
</tr>
<tr>
<td>CONC 161</td>
<td>Building Mechanical/Electrical</td>
<td>3</td>
</tr>
<tr>
<td>CONC 208</td>
<td>Construction Equipment</td>
<td>3</td>
</tr>
<tr>
<td>CONC 218</td>
<td>Surveying</td>
<td>3</td>
</tr>
<tr>
<td>CONC 228</td>
<td>Estimating and Cost Control</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 27

### Program Specific Degree Requirements

(46 semester hours, must earn a “C” or better in each course)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUBB 349</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>FINA 301</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>HRMA 371</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>CONM 234</td>
<td>Graphic Communication for Construction Management</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONM 181</td>
<td>Principles of Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CONM 316</td>
<td>Construction Materials and Methods</td>
<td>3</td>
</tr>
<tr>
<td>CONM 340</td>
<td>Construction Estimating and Bidding</td>
<td>3</td>
</tr>
<tr>
<td>CONM 361</td>
<td>Advanced MEP Systems</td>
<td>3</td>
</tr>
<tr>
<td>CONM 362</td>
<td>Structure Analysis - Statics/Materials Strength</td>
<td>3</td>
</tr>
<tr>
<td>CONM 370</td>
<td>Managing Safety and the Regulatory Environment</td>
<td>3</td>
</tr>
<tr>
<td>CONM 380</td>
<td>Construction Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CONM 462</td>
<td>Soil and Foundation Construction</td>
<td>3</td>
</tr>
<tr>
<td>CONM 462L</td>
<td>Soil and Foundation Construction Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CONM 472</td>
<td>Construction Planning and Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>CONM 475</td>
<td>Construction Company and Financial Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 43

#### Concentration Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONM 234</td>
<td>Graphic Communication for Construction Management</td>
<td>3</td>
</tr>
<tr>
<td>CONM 340</td>
<td>Construction Estimating and Bidding</td>
<td>3</td>
</tr>
<tr>
<td>CONM 361</td>
<td>Advanced MEP Systems</td>
<td>3</td>
</tr>
<tr>
<td>CONM 362</td>
<td>Structure Analysis - Statics/Materials Strength</td>
<td>3</td>
</tr>
<tr>
<td>CONM 370</td>
<td>Managing Safety and the Regulatory Environment</td>
<td>3</td>
</tr>
<tr>
<td>CONM 380</td>
<td>Construction Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CONM 462</td>
<td>Soil and Foundation Construction</td>
<td>3</td>
</tr>
<tr>
<td>CONM 462L</td>
<td>Soil and Foundation Construction Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CONM 472</td>
<td>Construction Planning and Scheduling</td>
<td>3</td>
</tr>
<tr>
<td>CONM 475</td>
<td>Construction Company and Financial Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 43

### General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 10 semester hours, 1 hour must be upper division

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics-GTSC1</td>
<td>1</td>
</tr>
</tbody>
</table>

Select additional electives 8

Total Semester Credit Hours 10

### Course Title Semester Credit Hours

#### First Year

Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>CONC 101</td>
<td>Construction Safety and Regulations</td>
<td>3</td>
</tr>
<tr>
<td>CONC 116</td>
<td>Building Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>4</td>
</tr>
<tr>
<td>CONM 181</td>
<td>Principles of Construction Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 16

Spring Semester

Essential Learning - Humanities 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>HRMA 371</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>CONC 208</td>
<td>Construction Equipment</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>KINA Activity</td>
<td></td>
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</tr>
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</table>

Total Semester Credit Hours 14

#### Second Year

Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>CONC 228</td>
<td>Estimating and Cost Control</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 111L &amp; 111L = General Physics Laboratory-GTSC1</td>
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Total Semester Credit Hours 17

Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 130</td>
<td>Trigonometry</td>
<td>3</td>
</tr>
<tr>
<td>CONC 218</td>
<td>Surveying</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 15

#### Third Year

Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONM 362</td>
<td>Structure Analysis - Statics/Materials Strength</td>
<td>3</td>
</tr>
<tr>
<td>CONM 340</td>
<td>Construction Estimating and Bidding</td>
<td>3</td>
</tr>
<tr>
<td>CONM 361</td>
<td>Construction Materials and Methods</td>
<td>3</td>
</tr>
<tr>
<td>CONM 370</td>
<td>Managing Safety and the Regulatory Environment</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
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</tr>
</tbody>
</table>

Total Semester Credit Hours 16

Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HRMA 371</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>CONM 361</td>
<td>Advanced MEP Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 3

### Restricted Elective

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONM 485</td>
<td>Construction Management Issues</td>
<td>3</td>
</tr>
<tr>
<td>CONM 495</td>
<td>Independent Study</td>
<td>3</td>
</tr>
<tr>
<td>CONM 499</td>
<td>Construction Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 3
CONM 380 Construction Project Management 3
BUGB 349 Legal Environment of Business 3

Semester Credit Hours 15

Fourth Year
Fall Semester
Essential Learning - Fine Arts 3
Essential Learning - History 3
CONM 472 Construction Planning and Scheduling 3
FINA 301 Managerial Finance 3
General Elective 3

Semester Credit Hours 15

Spring Semester
CONM 462 Soil and Foundation Construction 3
CONM 462L Soil and Foundation Construction Laboratory 1
CONM 475 Construction Company and Financial Management 3
Restricted Elective 3
General Elective 2

Semester Credit Hours 12
Total Semester Credit Hours 120

1 If student opts to take CONM 499, it should be planned between Junior and Senior years.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
CONSTRUCTION TECHNOLOGY

Program Description
The AAS in Construction Technology with an emphasis in supervision is designed to prepare students for a wide range of opportunities in the construction field that require management skills. The curriculum incorporates courses in building materials and testing, estimating, planning and scheduling, project management and other supervisory and essential learning courses that develop management skills. Career options include obtaining a position as a purchasing manager, salesperson, crew supervisor, or project manager in the field of construction.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
- Supervision, Construction Technology (AAS) (p. 290)

Supervision, Construction Technology (AAS)
Degree: Associate of Applied Science
Major: Construction Technology
Emphasis: Supervision
Program Code: 1372

About This Major . . .
The A.A.S. degree in Construction Technology with an emphasis on Supervision is designed to prepare students for a wide range of opportunities in the Construction field that require management skills. The curriculum incorporates courses in building materials and testing, estimating, planning and scheduling, project management, and other supervisory and Essential Learning courses that develop management skills. Career options include obtaining a position as a purchasing estimator, salesperson, crew supervisor, or project manager in the field of construction.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate the fundamental skill in the oral and written language as required to effectively communicate within the construction industry. (Communication Fluency)
2. Demonstrate blueprint reading skills, and the surveying skills necessary to function in the profession. (Specialized Knowledge)
3. Interpret, locate, organize and evaluate problems and tasks that arise in the building industry, solve these through the use of information resource skills necessary to the construction industry. (Critical Thinking)
4. Describe the scope and application of principle features of the field of study, including core practices in the construction industry. (Specialized Knowledge)
5. Demonstrate the mastery of OSHA safety standards in the construction industry. Generate a substantially error free product or process for the workforce. (Applied Learning)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this degree:
- 63 semester hours total for the AAS, Construction Technology, Supervision.

Essential Learning Requirements
(15 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
</tbody>
</table>
SPCH 101  Interpersonal Communications
SPCH 102  Speechmaking

Mathematics
MATH 107  Career Math  3

Other Essential Learning Core Courses
ECON 201  Principles of Macroeconomics-GTSS1  3
Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Total Semester Credit Hours  15

Other Lower Division Requirements

Wellness Requirement
KINE 100  Health and Wellness  1
Select one Activity course  1

Total Semester Credit Hours  2

Program Specific Degree Requirements
(46 semester hours, must earn a "C" or better in each course)

Core Courses
CONC 101  Construction Safety and Regulations  3
CONC 104  Architectural/Civil Print Reading  2
CADT 106  Computer Aided Design  3
CONC 116  Building Materials  3
CONC 117  Building Materials Testing  3
CONC 161  Building Mechanical/Electrical  3
CONC 208  Construction Equipment  3
CONC 218  Surveying  3
CONC 228  Estimating and Cost Control  3
CONC 234  Commercial/Industrial Plans  2
CONC 245  Project Management  3
CONC 251  Construction Prep: Codes, Permits  3
CONC 265  Planning and Scheduling for the Construction Supervisor  3

Total Semester Credit Hours  37

Restricted Electives
Select 9 semester hours of the following:
CADT (Instructor Advice)
CONC (Instructor Advice)
ACCT 201  Principles of Financial Accounting
MANG 201  Principles of Management
HRMA 371  Human Resource Management
BUGB 351  Business Law I
BUGB 352  Business Law II
CHM 121  Principles of Chemistry-GTSC1
& 121L  and Principles of Chemistry Laboratory-GTSC1
PHYS 111  General Physics-GTSC1
& 111L  and General Physics Laboratory-GTSC1
STAT 200  Probability and Statistics-GTMA1
MARK 231  Principles of Marketing
FLAS Spanish

Total Semester Credit Hours  9

Course  Title  Semester Credit Hours
First Year  Fall Semester
ENGL 111  English Composition-GTCO1  3
MATH 107  Career Math  3
CONC 101  Construction Safety and Regulations  3
CONC 104  Architectural/Civil Print Reading  2
CONC 116  Building Materials  3
KINE 100  Health and Wellness  1
KINA 1XX  Activity  1

Semester Credit Hours  16

Spring Semester
Select one of the following:  3
ENGL 112  English Composition-GTCO2
SPCH 101  Interpersonal Communications
SPCH 102  Speechmaking
CONC 218  Surveying  3
CONC 117  Building Materials Testing  3
CONC 161  Building Mechanical/Electrical  3
CONC 208  Construction Equipment  3
CONC 234  Commercial/Industrial Plans  2

Semester Credit Hours  17

Second Year  Fall Semester
Social Sciences, Natural Science, Fine Arts or Humanities  3
ECON 201  Principles of Macroeconomics-GTSS1  3
CONC 228  Estimating and Cost Control  3
CONC 251  Construction Prep: Codes, Permits  3
CONC 265  Planning and Scheduling for the Construction Supervisor  2

Semester Credit Hours  15

Spring Semester
CONC 245  Project Management  3
Restricted Elective  3
Restricted Elective  3
Restricted Elective  3
CADT 106  Computer Aided Design  3

Semester Credit Hours  15

Total Semester Credit Hours  63

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).
DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
Criminal Justice

Program Description
The Associate of Applied Science (AAS) in Criminal Justice is designed for students who have completed or wish to complete the police academy program at Western Colorado Community College and incorporates instruction gained from the Peace Officer Standards and Training (POST) program. Students in the AAS program must complete the essential learning requirements and choose additional courses in law enforcement related studies either before or after completing the academy. Completion of the AAS in Criminal Justice may provide graduates with additional promotional opportunities in law enforcement areas (such as police and sheriff departments, state enforcement, parole officer, liquor enforcement and wildlife enforcement). Law enforcement agencies in some areas require an AAS degree for entry-level positions.

The Bachelor of Arts in Criminal Justice is designed to provide students interested in careers in the justice system with the knowledge, communication and critical thinking skills necessary for success in their field. Graduates secure positions in law enforcement, probation, parole and corrections. Many also use this degree as the starting point in their pursuit of a law degree. Finally, the degree will assist students in their upward mobility in their area of employment.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

Important information for this degree:

- Students must maintain a 2.5 cumulative GPA or higher in all CMU coursework.
- Selective Admissions: All students intending to obtain a BA or BAS in Criminal Justice will initially be enrolled as pre-criminal justice majors. Students must earn a “C” or better in CRMJ 110 and CRMJ 201 prior to enrolling in any additional program specific courses. Core courses CRMJ 110, CRMJ 201, CRMJ 310, CRMJ 320, and CRMJ 328 must be completed with a “C” or better before students will be admitted into the BA/BAS major. Students must also complete MATH 110 (or higher), ENGL 111, and STAT 215 – all with a “C” or better prior to acceptance as a Criminal Justice major. GPA within these subjects must be at least 2.5. Overall cumulative GPA after 45 credit hours (approximately 3 semesters) must be at least 2.5. Please see the Criminal Justice Student Handbook for more information. Transfer students will be evaluated on a case-by-case basis.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Discuss the history and practice of each segment of the Criminal Justice System: police, courts, and corrections.
2. Analyze ethical issues surrounding the practice of criminal justice in a diverse society.
3. Use knowledge of the nature and causes of crimes, typologies, and theories of offenders and victims in critiquing current crime prevention policies.
4. Practice quantitative and qualitative research methods including interpretation of statistical analyses.
5. Demonstrate proficient oral communication and writing skills that are formal and professional in nature.

Contact Information

Associate Degree:
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Baccalaureate Degree:
Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Associates
- Criminal Justice (AAS) (p. 299)

Bachelors/Minors
- Criminal Justice (BA) (p. 293)
- Criminal Justice (Minor) (p. 301)

- Forensic Investigation - Criminal Justice (Minor) (p. 302)
- Post Academy, Criminal Justice (BAS) (p. 296)

Criminal Justice (BA)

Degree: Bachelor of Arts
Major: Criminal Justice
Program Code: 3706

About This Major . . .

The Bachelor of Arts in Criminal Justice is designed to provide students interested in careers in the justice system with the knowledge, communication and critical thinking skills necessary for success in their field.

Important information for this degree:

- Students must maintain a 2.5 cumulative GPA or higher in all CMU coursework.
- Selective Admissions: All students intending to obtain a BA or BAS in Criminal Justice will initially be enrolled as pre-criminal justice majors. Students must earn a “C” or better in CRMJ 110 and CRMJ 201 prior to enrolling in any additional program specific courses. Core courses CRMJ 110, CRMJ 201, CRMJ 310, CRMJ 320, and CRMJ 328 must be completed with a “C” or better before students will be admitted into the BA/BAS major. Students must also complete MATH 110 (or higher), ENGL 111, and STAT 215 – all with a “C” or better prior to acceptance as a Criminal Justice major. GPA within these subjects must be at least 2.5. Overall cumulative GPA after 45 credit hours (approximately 3 semesters) must be at least 2.5. Please see the Criminal Justice Student Handbook for more information. Transfer students will be evaluated on a case-by-case basis.

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4. Practice quantitative and qualitative research methods including interpretation of statistical analyses.
5. Demonstrate proficient oral communication and writing skills that are formal and professional in nature.
Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Select one Fine Arts course 3

Natural Sciences

Select one Natural Sciences course 3

Select one Natural Sciences course with a lab 4

Total Semester Credit Hours 31

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 Recommended: POLS 101, PSYC 150, SOCO 260, or SOCO 264.
3 One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Wellness Requirement</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

(6 semester hours - must receive a grade of C or better in all courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAS 114 &amp; FLAS 115 will NOT fulfill this requirement.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements

(59-60 semester hours - must receive a grade of “C” or better in all core and restricted elective courses and maintain a 2.5 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRMJ 110</td>
<td>Orientation to Criminal Justice Inquiry</td>
<td>1</td>
</tr>
<tr>
<td>CRMJ 201</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CRMJ 302</td>
<td>Ethics in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 310</td>
<td>The Police Process</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 315</td>
<td>Research Methods in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 320</td>
<td>Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 328</td>
<td>American Court Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 370</td>
<td>Criminology</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 Recommended: POLS 101, PSYC 150, SOCO 260, or SOCO 264.
3 One course must include a lab.
Capstone
Select one of the following: 3

- CRMJ 465 Contemporary Issues in Criminal Justice
- CRMJ 490 Comparative Criminal Justice
- CRMJ 499 Internship
- SOCI 497 Structured Research

Criminal Justice Electives
Select at least one course from each subfield: 1 12-13

Policing
- CRMJ 210 Emergency Dispatching
- FOAN 280 Crime Scene Processing
  & 280L and Crime Scene Processing Laboratory
- CRMJ 335 Community Policing
- CRMJ 410 Criminal Investigations
- CRMJ 415 Counter-Terrorism and Law Enforcement

Courts
- CRMJ 301 Criminal Procedure
- CRMJ 405 Civil Liability for Law Enforcement and Corrections
- CRMJ 412 Constitutional Law
- CRMJ 420 Criminal Law
- CRMJ 425 Trial, Evidence and Legal Advocacy

Corrections
- CRMJ 340 Community Corrections
- CRMJ 440 Capital Punishment
- CRMJ 480 Inside-Out Prison Exchange

Criminal Justice Theory
- CRMJ 311 Victimology
- CRMJ 325 Juvenile Justice and Delinquency
- CRMJ 330 Domestic Violence
- CRMJ 360 Crime and Deviance
- CRMJ 375 Women and Crime

Total Semester Credit Hours 41-42

1 Criminal Justice Electives taken beyond the required 12-13 semester hours can also satisfy the restricted elective requirement.

Restricted Electives
Select 18 semester hours chosen from the following courses (or additional Criminal Justice Electives above): 18

- FOAN 232 Survey of Forensic Science
  & 232L and Survey of Forensic Science Laboratory
- FOAN 350 Forensic Anthropology
- EMDP 211 Introduction to Emergency Management
- POLS 236 State and Local Government
- CRMJ 395 Independent Study
- CRMJ 396 Topics 1
- CRMJ 495 Independent Study
- CRMJ 496 Topics 1
- CRMJ 499 Internship 2
- PADM 315 Public Management
- PSYC 320 Social Psychology
- PSYC 410 Drugs and Human Behavior
- PSYC 425 Forensic Psychology
- SOCO 316 Social Inequality
- SOCO 325 Race and Ethnic Relations
- SOCO 400 Classical Social Theory

Total Semester Credit Hours 18

1 Topics may be taken more than one time if the course has a different topic
2 May only count as 1 to 3 credits toward the 18 restricted credits. If taken to meet the capstone requirement, must be 3 credits and cannot be used as a restricted elective.

General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 17-18 semester hours; additional hours of upper division may be needed.
Post Academy, Criminal Justice (BAS)

Degree: Bachelor of Applied Science
Major: Criminal Justice
POST Academy
Program Code: 3701

About This Major . . .

The Bachelor of Applied Science in Criminal Justice is designed to provide students interested in careers in the justice system, and specifically in policing/law enforcement, with the knowledge, communication, and critical thinking skills necessary for success in their field. Graduates will be job ready and able to secure positions in various policing/law enforcement positions (e.g., police officer, deputy sheriff, parole officer, etc.). The degree combines the technical skills required within entry-level law enforcement positions with the academic rigor of the baccalaureate degree. The degree will also assist students in their upward mobility in their area of employment.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

Important information about this program:

• To be admitted to the B.A.S. degree, certain prerequisites must be satisfied. Please see the Social and Behavioral Sciences department head or program faculty for complete requirements and application form.

• All students intending to obtain a BA or BAS in Criminal Justice will initially be enrolled as pre-criminal justice majors. Students must earn a "C" or better in CRMJ 110 and CRMJ 201 prior to enrolling in any additional program specific courses. Core courses CRMJ 110, CRMJ 201, CRMJ 310, CRMJ 320, and CRMJ 328 must be completed with a "C" or better before students will be admitted into the BA/BAS major. Students must also complete MATH 110 (or higher), ENGL 111, and STAT 215 — all with a "C" or better prior to acceptance as a Criminal Justice major. GPA within these subjects must be at least 2.5. Overall cumulative GPA after 45 credit hours (approximately 3 semesters) must be at least 2.5. Please see the Criminal Justice Student Handbook for more information. Transfer students will be evaluated on a case-by-case basis.

• Students are encouraged to attend the Western Colorado Peace Officers Academy (WCPOA). Up to 31 credits can be transferred from other Colorado POST approved academies associated with accredited institutions of higher learning or through existing articulation agreements with Colorado Mesa University. Students wishing to transfer credit from all other academies (e.g., agency, private, or out-of-state academies) can earn up to 30 credit hours through the Credit for Prior Learning program (https://www.coloradomesa.edu/academics/programs/credit-prior-learning.html).

• It is highly recommended that students complete all required coursework prior to enrolling in the POST Academy. Please see the criminal justice student handbook for more information.

• Students must maintain a 2.5 cumulative GPA or higher in all CMU coursework.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.

• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.

• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.

• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

<table>
<thead>
<tr>
<th>Criminal Justice Restricted Elective</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Season Credit Hours</td>
<td>15</td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>CRMJ 370</td>
<td>Criminal Justice Elective - Criminal Justice Theory</td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td>Restricted Electives (2 courses)</td>
<td>6</td>
</tr>
<tr>
<td>Semester Credit Hours</td>
<td>15</td>
</tr>
<tr>
<td>Fourth Year</td>
<td></td>
</tr>
<tr>
<td>Fall Semester</td>
<td>Restricted Electives (2 courses)</td>
</tr>
<tr>
<td>General Electives (3 courses)</td>
<td>9</td>
</tr>
<tr>
<td>Semester Credit Hours</td>
<td>15</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>Capstone Course</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td>3</td>
</tr>
<tr>
<td>General Electives (2 courses)</td>
<td>6</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>12</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td>120</td>
</tr>
</tbody>
</table>
campus-wide student learning outcomes, graduates of this major will be able to:

1. Discuss the history and practice of each segment of the Criminal Justice System: police, courts, and corrections.
2. Analyze ethical issues surrounding the practice of criminal justice in a diverse society.
3. Use knowledge of the nature and causes of crimes, typologies, and theories of offenders and victims in critiquing current crime prevention policies.
4. Practice quantitative and qualitative research methods including interpretation of statistical analyses.
5. Demonstrate proficient oral communication and writing skills that are formal and professional in nature.
6. Demonstrate proficiency in basic skills (driving, firearms, and arrest control) required for entry level policing.

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU Bachelor of Applied Science (BAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 33 upper-division credits.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/ certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements. The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other Lower Division Requirements**

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<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

1. Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2. Recommended: POLS 101, PSYC 150, SOCO 260, or SOCO 264.
3. One course must include a lab.

**Foundation Courses**

(6 semester hours, must receive a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAS 114 &amp; FLAS 115</td>
<td>Select two consecutive classes in the same foreign language</td>
<td>6</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

FLAS 114 & FLAS 115 will NOT fulfill this requirement.
Program Specific Degree Requirements

(77-78 semester hours, must earn a grade of "C" or better in each course and maintain a 2.5 cumulative GPA toward coursework in this area.)

- It is highly recommended that students complete all required coursework prior to enrolling in the POST Academy. Please see the criminal justice student handbook for more information.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRMJ 110</td>
<td>Orientation to Criminal Justice Inquiry</td>
<td>1</td>
</tr>
<tr>
<td>CRMJ 201</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td>4</td>
</tr>
<tr>
<td>CRMJ 302</td>
<td>Ethics in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 310</td>
<td>The Police Process</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 315</td>
<td>Research Methods in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 320</td>
<td>Corrections</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 328</td>
<td>American Court Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 370</td>
<td>Criminology</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Courses

Select one of the following:

- CRMJ 465 Contemorary Issues in Criminal Justice
- CRMJ 490 Comparative Criminal Justice
- CRMJ 499 Internship
- SOCI 497 Structured Research

Criminal Justice Electives

Select at least one course from each subfield: ① 12-13 semester credit hours

Policing

- CRMJ 210 Emergency Dispatching
- FOAN 280 Crime Scene Processing
- CRMJ 335 Community Policing
- CRMJ 410 Criminal Investigations
- CRMJ 415 Counter-Terrorism and Law Enforcement

Courts

- CRMJ 301 Criminal Procedure
- CRMJ 405 Civil Liability for Law Enforcement and Corrections
- CRMJ 412 Constitutional Law
- CRMJ 420 Criminal Law
- CRMJ 425 Trial, Evidence and Legal Advocacy

Corrections

- CRMJ 340 Community Corrections
- CRMJ 440 Capital Punishment
- CRMJ 480 Inside-Out Prison Exchange

Criminal Justice Theory

- CRMJ 311 Victimology
- CRMJ 325 Juvenile Justice and Delinquency
- CRMJ 330 Domestic Violence
- CRMJ 360 Crime and Deviance
- CRMJ 375 Women and Crime

Total Semester Credit Hours 41-42

① Criminal Justice Electives take beyond the required 12-13 semester hours can also satisfy the restricted elective requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POST Academy ①</td>
<td>Basic Police Academy</td>
<td>6</td>
</tr>
<tr>
<td>CRJW 101</td>
<td>Basic Police Academy II</td>
<td>10</td>
</tr>
<tr>
<td>CRJW 102</td>
<td>Basic Law</td>
<td>6</td>
</tr>
<tr>
<td>CRJW 105</td>
<td>Arrest Control</td>
<td>3</td>
</tr>
<tr>
<td>CRJW 106</td>
<td>Law Enforcement Driving</td>
<td>2</td>
</tr>
<tr>
<td>CRJW 107</td>
<td>Firearms</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 30

① Must receive a grade of "C" or better in all courses. Courses are taken as part of a state approved POST Academy.

Notes on Bachelor of Applied Science: 36 Semester Hours taken as part of a state approved Associate of Applied Science (AAS) degree to include CRMJ 201 and CRMJ 310 or other approved courses within an established AAS program. Credit hours that are applicable to requirements as listed for this degree will be applied accordingly. Student must complete all course requirements outlined for the degree.
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Natural Science with Lab</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Essential Learning - Natural Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>CRMJ 201</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 110</td>
<td>Orientation to Criminal Justice Inquiry</td>
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</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Mathematics</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 328</td>
<td>American Court Systems</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 310</td>
<td>The Police Process</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 320</td>
<td>Corrections</td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foundation Course - Foreign Language</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
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</tr>
<tr>
<td>Essential Learning - Social/Behavioral Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foundation Course - Foreign Language</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - Social/Behavioral Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 315</td>
<td>Research Methods in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td><strong>Third Year</strong></td>
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<td></td>
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<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRMJ 302</td>
<td>Ethics in Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>Criminal Justice Elective - Policing</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Criminal Justice Elective - Courts</td>
<td></td>
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</tr>
<tr>
<td>Criminal Justice Elective - Corrections</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRMJ 370</td>
<td>Criminology</td>
<td>3</td>
</tr>
<tr>
<td>Criminal Justice Elective - Criminal Justice Theory</td>
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</tr>
<tr>
<td>Capstone Course</td>
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<td>3</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CRJW 101</td>
<td>Basic Police Academy</td>
<td>6</td>
</tr>
<tr>
<td>CRJW 102</td>
<td>Basic Police Academy II</td>
<td>10</td>
</tr>
<tr>
<td>CRJW 105</td>
<td>Basic Law</td>
<td>6</td>
</tr>
<tr>
<td>CRJW 106</td>
<td>Arrest Control</td>
<td>3</td>
</tr>
<tr>
<td>CRJW 107</td>
<td>Law Enforcement Driving</td>
<td>2</td>
</tr>
<tr>
<td>CRJW 108</td>
<td>Firearms</td>
<td>3</td>
</tr>
<tr>
<td>KINA 127</td>
<td>Physical Conditioning</td>
<td>1</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
<td>120</td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audits on a regular basis and should discuss questions or concerns with their advisors or academic department heads. Discrepancies in requirements should be reported to the Registrar's Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

### Criminal Justice (AAS)

Degree: Associate of Applied Science  
Major: Criminal Justice  
Program Code: 1360

### About This Major . . .

This program is designed for students who want the credentials of an Associate's Degree combined with the Colorado Peace Officer Standards and Training (POST) certification. It is highly recommended that students seeking this degree complete their essential learning and elective requirements prior to enrolling in the Western Colorado Community College POST Academy. Once a student has passed all the minimum requirements of Colorado POST he or she has a timeline of ONLY 3 years to be hired by a law enforcement agency. Successful completion of the POST Academy is a requirement of this degree.
Upon successful completion of the requirements, the student would be awarded an A.A.S. degree in Criminal Justice by Colorado Mesa University. This degree provides graduates with an advantage in the competitive law enforcement career market. Graduates are qualified to apply for jobs in police departments, sheriff’s offices, county jails, alternative sentencing programs, Colorado State Parks, Dept. of Corrections and the State Patrol. Current professionals may increase their promotional opportunities.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Illustrate communication and writing skills that are formal and professional in nature. (Communication Fluency)
2. Apply mathematical concepts required of entry level law enforcement and criminal justice professionals. (Quantitative Fluency)
3. Demonstrate critical thinking skills by evaluating and analyzing contemporary issues in law enforcement and criminal justice using knowledge of criminal justice concepts, terminology, and theories. (Critical Thinking)
4. Demonstrate specialized and holistic knowledge of the Criminal Justice system and the law enforcement profession. (Specialized Knowledge)
5. Demonstrate proficiency in basic skills required for entry level law enforcement and criminal justice professionals. (Applied Learning)
6. Examine ethical standards and practices, specific to law enforcement, the courts, and corrections. (Specialized Knowledge)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(15 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2 or SPCH 102</td>
<td>3</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td></td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td></td>
</tr>
<tr>
<td>SOCO 144</td>
<td>Marriage and Families-GTSS3</td>
<td></td>
</tr>
<tr>
<td>SOCO 260</td>
<td>General Sociology-GTSS3</td>
<td></td>
</tr>
<tr>
<td>PHIL 120</td>
<td>Ethics-GTAH3</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 15

1. MATH 110 or higher is required for BA or BAS in Criminal Justice.

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>KINA 127</td>
<td>Physical Conditioning</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 2

1. KINA 127 is taken simultaneously with POST Academy.

**Program Specific Degree Requirements**

(43 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJW 101</td>
<td>Basic Police Academy</td>
<td>6</td>
</tr>
<tr>
<td>CRJW 102</td>
<td>Basic Police Academy II</td>
<td>10</td>
</tr>
<tr>
<td>CRJW 105</td>
<td>Basic Law</td>
<td>6</td>
</tr>
<tr>
<td>CRJW 106</td>
<td>Arrest Control</td>
<td>3</td>
</tr>
<tr>
<td>CRJW 107</td>
<td>Law Enforcement Driving</td>
<td>2</td>
</tr>
<tr>
<td>CRJW 108</td>
<td>Firearms</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 110</td>
<td>Orientation to Criminal Justice Inquiry</td>
<td>1</td>
</tr>
<tr>
<td>CRMJ 201</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
</tbody>
</table>
SPCH 101  Interpersonal Communications 3
POLS 101  American Government-GTSS1 3
SOCO 264  Social Problems-GTSS3 3

Total Semester Credit Hours 43

Course               Title                                          Semester Credit Hours
First Year
Fall Semester
ENGL 111  English Composition-GTCO1 3
SPCH 101  Interpersonal Communications 3
POLS 101  American Government-GTSS1 3

Spring Semester
ENGL 112  or SPCH 102  English Composition-GTCO2 or Speechmaking 3
CRMJ 110  Orientation to Criminal Justice Inquiry 1
CRMJ 201  Introduction to Criminal Justice 3
SOCO 264  Social Problems-GTSS3 3
MATH 107  Career Math (or higher) 3
KINE 100  Health and Wellness 1

Second Year
Fall Semester
CRJW 101  Basic Police Academy 6
CRJW 102  Basic Police Academy II 10
CRJW 105  Basic Law 6
CRJW 106  Arrest Control 3
CRJW 107  Law Enforcement Driving 2
CRJW 108  Firearms 3
KINA 127  Physical Conditioning 1

Spring Semester
ENGL 111  English Composition-GTCO1 3
SPCH 101  Interpersonal Communications 3
POLS 101  American Government-GTSS1 3

Total Semester Credit Hours 60

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their degree requirements:

• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Program Code: M701

Criminal Justice (Minor)

Minor: Criminal Justice
Program Code: M701

About This Minor...
This minor is designed to provide students interested in careers in the justice system with the knowledge, communication and critical thinking skills necessary for success in their field. Graduates secure positions in policing, probation, parole and other aspects of corrections. Many also use this degree as the starting point in their pursuit for a law degree. Graduates of this minor will be able to demonstrate:

1. Specialized and holistic knowledge of the Criminal Justice system.
2. Rigorous critical thinking skills by evaluating and analyzing contemporary issues in Criminal Justice.
3. Proficient communication and writing skills that are formal and professional in nature.

Institutional Minor Requirements
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

• A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
• Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
• At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
• At least 25 percent of the classes must be taken at CMU.
• 2.00 cumulative GPA or higher for the courses used for the minor.
• A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
• A minor must be outside the major field of study.
• A student may earn up to five minors with any baccalaureate degree at CMU.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
Program Specific Minor Requirements
(24 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOAN 232</td>
<td>Survey of Forensic Science</td>
<td>2</td>
</tr>
</tbody>
</table>

Graduation Process
A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Forensic Investigation - Criminal Justice (Minor)
Minor: Forensic Investigation - Criminal Justice
Program Code: M717

About This Minor...
This minor combines courses in criminal justice with forensic investigation courses. It provides a student with a solid foundation in forensic investigation, and the recognition and collection of physical evidence. Students are better prepared to apply investigative concepts and techniques in the criminal justice profession.

Institutional Minor Requirements
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Program Specific Minor Requirements
(24 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOAN 232</td>
<td>Survey of Forensic Science</td>
<td>2</td>
</tr>
</tbody>
</table>

1 One of these two courses must be used for the Criminal Justice Minor Core. The other one may be used as a selection to meet Restricted Elective requirements.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOAN 232L</td>
<td>Survey of Forensic Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>FOAN 280</td>
<td>Crime Scene Processing</td>
<td>2</td>
</tr>
<tr>
<td>FOAN 280L</td>
<td>Crime Scene Processing Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>FOAN 480</td>
<td>Professional Issues in Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 301</td>
<td>Criminal Procedure</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 410</td>
<td>Criminal Investigations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>24</strong></td>
</tr>
</tbody>
</table>

Select three of the following:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 217</td>
<td>Forensic Entomology</td>
</tr>
<tr>
<td>&amp; 217L</td>
<td>Forensic Entomology Laboratory</td>
</tr>
<tr>
<td>CRMJ 302</td>
<td>Ethics in Criminal Justice</td>
</tr>
<tr>
<td>CRMJ 370</td>
<td>Criminology</td>
</tr>
<tr>
<td>CRMJ 405</td>
<td>Civil Liability for Law Enforcement and Corrections</td>
</tr>
<tr>
<td>CRMJ 425</td>
<td>Trial, Evidence and Legal Advocacy</td>
</tr>
<tr>
<td>FOAN 350</td>
<td>Forensic Anthropology</td>
</tr>
</tbody>
</table>

1 Lectures and labs must be taken together for credit towards graduation.

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.

### Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
CULINARY ARTS

Program Description
The culinary arts program trains people interested in developing professional food preparation and management skills. From future chefs to foodies, develop your basic cooking and baking techniques, or take your career to the next level at the WCCC Culinary Arts Center in Grand Junction, Colorado. Small class sizes translate to personal attention given students by our highly skilled and respected culinary instructors. Interaction between students and local diners at Chez Lena restaurant complements marketing, dining room management, and advanced cooking coursework. Whether you want to start seriously playing with food or start your own business, discover your passion at Western Colorado Community College/Colorado Mesa University.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

See also Baking and Pastry (p. 182).

Associates
• Culinary Arts (AAS) (p. 304)

Certificates
• Food Preparation (Technical Certificate) (p. 306)

Culinary Arts (AAS)
Degree: Associate of Applied Science
Major: Culinary Arts
Program Code: 1350

About This Major . . .
Students in the Culinary Arts Program learn the fundamental skills and techniques needed to succeed in the professional kitchen. Areas of study include: Safety and Sanitation, Nutrition, Food Preparation, Baking, Dining Room Management, Wine and Spirits, Hospitality Supervision, Cost Controls, and Purchasing. Students choose from elective courses in garde manger, international cuisine, techniques of competition, or an on the job internship. The curriculum meets the requirements of the American Culinary Federation. Upon completion of the program, students will be prepared for an entry-level position in the broad and expanding hospitality industry, as well as prepared to continue for advanced study in the Bachelor of Applied Science in Hospitality Management.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Use information on an assigned topic to address a course or discipline related question or a question of practice in a workplace setting. (Applied Learning)

2. Apply appropriate mathematical concepts to the field of culinary arts as a basis for menu planning, purchasing and recipe conversion. (Quantitative Fluency)

3. Evaluate strategies for production and sales of food products, identify, formulate, and assess a variety of food products. (Critical Thinking/ Specialized Knowledge)

4. Interact with customers in dining room to present and explain the menu, the ingredients, and the cooking and baking methods, using best marketing practices while meeting the need of the customer. (Applied Learning/ Communication Fluency)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 60 semester hours minimum.
• Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this degree:
• 63 semester hours total for the AAS, Culinary Arts.

Essential Learning Requirements
(15 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following courses: 3
<table>
<thead>
<tr>
<th>ENGL 112</th>
<th>English Composition-GTCO2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
</tr>
</tbody>
</table>

**Mathematics**

| MATH 107 | Career Math (or higher) | 3 |

### Other Essential Learning Core Courses

- Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course
- Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Total Semester Credit Hours 15

### Program Specific Degree Requirements

(46 semester hours, must earn a grade of "C" or better in each course.)

- Additional expenses - Students in Culinary Arts may be required to purchase or have cooking tools and appropriate chef's clothing. This does not include required textbooks. These costs vary with student needs and brand or quality of tools purchased.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUAR 101</td>
<td>Food Safety &amp; Sanitation</td>
</tr>
<tr>
<td>CUAR 115</td>
<td>Introduction to Sustainable Cuisine</td>
</tr>
<tr>
<td>CUAR 125</td>
<td>Introduction to Foods</td>
</tr>
<tr>
<td>CUAR 129</td>
<td>Center of the Plate</td>
</tr>
<tr>
<td>CUAR 145</td>
<td>Introduction to Baking</td>
</tr>
<tr>
<td>CUAR 156</td>
<td>Nutrition for the Hospitality Professional</td>
</tr>
<tr>
<td>CUAR 190</td>
<td>Dining Room Management</td>
</tr>
<tr>
<td>CUAR 233</td>
<td>Advanced Line Prep and Cookery</td>
</tr>
<tr>
<td>CUAR 179</td>
<td>Wines, Spirits and Beers</td>
</tr>
<tr>
<td>CUAR 255</td>
<td>Supervision in the Hospitality Industry</td>
</tr>
<tr>
<td>CUAR 262</td>
<td>Purchasing for the Hospitality Industry</td>
</tr>
<tr>
<td>CISB 101</td>
<td>Business Information Technology</td>
</tr>
<tr>
<td>or ABUS 257</td>
<td>Managing Office Technology I</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 40

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).
DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Food Preparation (Technical Certificate)

Degree: Technical Certificate
Program of Study: Food Preparation
Program Code: 1142

About This Major . . .

Students enrolled in the Technical Certificate in Food Preparation learn the fundamental skills and techniques of food and bakery production, safety, and sanitation. Upon completion of the program, students will be prepared for an entry-level position in the broad and expanding hospitality industry, as well as prepared to continue for advanced study in the Technical Certificate in Food and Beverage Production and Service, Associate of Applied Science in Culinary Arts, or the Bachelor of Applied Science in Hospitality Management.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Use information on an assigned topic to address a course or discipline related question or a question of practice in a workplace setting. (Applied Learning)
2. Apply appropriate mathematical concepts to the field of culinary arts as a basis for menu planning, purchasing and recipe conversion. (Quantitative Fluency)
3. Evaluate strategies for production and sales of food products, identify, formulate, and assess a variety of food products. (Critical Thinking/Specialized Knowledge)
4. Interact with customers in dining room to present and explain the menu, the ingredients, and the cooking and baking methods, using best marketing practices while meeting the need of the customer. (Applied Learning/Communication Fluency)

Institutional Certificate Requirements
The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than "C" will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(17 semester hours, must earn a grade of “C” or better in each course.)

- Additional expenses - Students in Culinary Arts are required to purchase cooking tools and uniforms. This does not include required textbooks. These costs vary with student needs and brand or quality of tools purchased.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CUAR 101</td>
<td>Food Safety &amp; Sanitation</td>
<td>2</td>
</tr>
<tr>
<td>CUAR 115</td>
<td>Introduction to Sustainable Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>CUAR 125</td>
<td>Introduction to Foods</td>
<td>4</td>
</tr>
<tr>
<td>CUAR 129</td>
<td>Center of the Plate</td>
<td>4</td>
</tr>
<tr>
<td>CUAR 145</td>
<td>Introduction to Baking</td>
<td>4</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td>Semester Credit Hours</td>
</tr>
<tr>
<td>----------</td>
<td>---------------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>CUAR 101</td>
<td>Food Safety &amp; Sanitation</td>
<td>2</td>
</tr>
<tr>
<td>CUAR 115</td>
<td>Introduction to Sustainable Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>CUAR 125</td>
<td>Introduction to Foods</td>
<td>4</td>
</tr>
<tr>
<td>CUAR 129</td>
<td>Center of the Plate</td>
<td>4</td>
</tr>
<tr>
<td>CUAR 145</td>
<td>Introduction to Baking</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>17</td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
CULTURAL RESOURCE MANAGEMENT

Program Description
The certificate in cultural resource management is designed to give students all of the basic skills necessary for entry-level (field technician) positions in applied archaeology. These will include, but are not limited to, basic archaeological field methods, basic archaeological lab methods, the use of Geographic Information Systems and Public Interpretation. Beyond these skills, however, the certificate program strives to produce creative, engaged and informed archaeologists who can articulate Cultural Resource Management's role in inquiry-based archaeology and its larger anthropological goals.

Contact Information
Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Certificates
• Cultural Resource Management (Professional Certificate) (p. 308)

Cultural Resource Management (Professional Certificate)
Award: Professional Certificate
Program of Study: Cultural Resource Management
Program Code: 1710

About This Major . . .
The Certificate in Cultural Resource Management is designed to give students the basic skills necessary for entry-level (field technician) positions in applied archaeology. These will include, but are not limited to, basic archaeological field methods, basic archaeological lab methods, the use of Geographic Information Systems and Public Interpretation. Beyond these skills, however, the certificate program strives to produce creative, engaged and informed archaeologists who can articulate Cultural Resource Management's role in inquiry-based archaeology and its larger anthropological goals.

Upon completion of the program, students will be able to:
1. Combine academic archaeological theory with applied skills in the field and lab. (Applied Learning)
2. Communicate the kind and scope of appropriate archaeological studies with regard to federal and state law. (Specialized Knowledge)
3. Apply general knowledge of archaeological methods to specific situations encountered in the field. (Critical Thinking)
4. Utilize all modern technologies currently being used in archaeological research, including GIS and electronic mapping. (Specialized Knowledge)
5. Communicate findings and their importance to diverse stakeholders (landowners, corporate interests, scientific colleagues, the general public), in written and oral media. (Communication Fluency)

Institutional Certificate Requirements
The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Primarily 300-400 level courses.
- At least fifty percent of the credit hours must be taken at CMU.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(42 semester hours - must receive a grade of “C” or better in all courses. Some course options listed below have prerequisites not required by this program. Please review prerequisites when making course selections.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARKE 205</td>
<td>Principles of Archaeology - GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>ARKE 225</td>
<td>Introduction to North American Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARKE 402</td>
<td>Cultural Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>ARKE 410</td>
<td>Field Methods in Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ARKE 410L</td>
<td>Field Methods in Archaeology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ARKE 466</td>
<td>Field Research in Archeology</td>
<td>6</td>
</tr>
<tr>
<td>ARKE 467</td>
<td>Archaeology Lab Methods</td>
<td>3</td>
</tr>
<tr>
<td>ARKE 467L</td>
<td>Archaeology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ANTH 202</td>
<td>Introduction to Anthropology-GTSS3</td>
<td>6</td>
</tr>
</tbody>
</table>

Select 6 semester hours from the list below, at least 3 of which have to be from the ARKE selections numbered 300 or higher:

- ARKE 300 Human Evolution
- ARKE 301 The Emergence of Human Culture
- ARKE 302 From Domestication to States
- ARKE 320 Colorado Archaeology
- ARKE 325 Geoarchaeology
- ARKE 350 Southwest Archaeology
- ARKE 352 Paleoindian Archaeology
- HIST 435 Classical Archaeology

Cultural Resource Management Courses
- GEOG 131 Introduction to Cartography | 3
DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.
CYBER SECURITY

Program Description
The professional certificate in cyber security includes courses and topics from basic computer and system security to more advanced topics in network and application security areas of information assurance.

A certificate in cyber security is an excellent enhancement to computer science and related fields. The program is designed to provide students interested in careers in cybersecurity areas with the knowledge and skills necessary for success in this very important and demanding field of information assurance.

Contact Information
Department of Computer Science
Mathematics and Statistics
Wubben Science 132
970.248.1407

Certificates
• Cyber Security (Professional Certificate) (p. 310)

Cyber Security (Professional Certificate)
Award: Professional Certificate
Program of Study: Cyber Security
Major Code: 1364

About This Major . . .
The certificate in Cyber Security is designed to provide students with the knowledge and skills needed to engage in activities pertaining to protecting computer systems, networks, applications, and data. The program also prepares students for successfully completing internationally recognized certifications such as Certified Information Systems Security Professional (CISSP), CEH (Certified Ethical Hacker), etc.

All CMU professional certificate recipients are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning.

Upon completion of this program, students will be able to:
1. Identify strengths and weaknesses of competing cyber defense tools and defend a choice for a given situation. (Critical Thinking)
2. Write simple scripts in scripting languages (e.g., to automate system administration tasks). (Applied Learning)
3. Evaluate the security of computer systems, networks, and applications. (Applied Learning)
4. Demonstrate clear effective communication on the importance of cyber security. (Communication Fluency)
5. Demonstrate independent learning and use of new technologies in cyber security. (Specialized Knowledge)

Institutional Certificate Requirements
The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.
• Primarily 300-400 level courses.
• At least fifty percent of the credit hours must be taken at CMU.
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(9 semester hours, must earn a grade of "C" or better in each course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 370</td>
<td>Computer Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 420</td>
<td>Cyber Security</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 465</td>
<td>Network/Application Security</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 9

Consult with a Computer Science faculty advisor regarding prerequisite classes that might be necessary to take.

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated
requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.
DANCE

Program Description
The Department of Theatre Arts offers one of the most successful training degree programs in Colorado. The Bachelor of Fine Arts in Dance is focused on helping students acquire a sound understanding of the performing arts.

Dance at CMU is thriving, with an array of dance styles, performance opportunities and travel. Equal emphasis is placed on Modern, Jazz, Ballet and Tap with course offerings from beginner to advanced levels. Other courses include Hip Hop, Ballroom, Dance Composition, Improvisation, Pedagogy, Dance History and Philosophy, Music Analysis, Healthy Dancer and Repertory Performance. Dance at Colorado Mesa University features courses with an emphasis on physical inquiry and cultural relevance in diverse dance forms with faculty that value and teach methods of embodied awareness, strong technical foundation, and performance as a practice.

The faculty members have professional backgrounds across multiple forms of dance. With four dance concerts a year, Colorado Mesa University faculty and students choreograph and invite visiting guest artists from the professional dance world. Students annually travel to American College Dance Association, conferences, and engage in local and state outreach.

The BFA in Dance is constructed to help students meet the rigorous demands of a professional dance career and provide a strong foundation and practical experience for future dance artists. With smaller class sizes, students are given the personal attention and mentorship that will better prepare them for careers in the field of dance.

Special Requirements
Students seeking admission as dance majors must successfully audition for acceptance into the program. Admission to the University does not guarantee admission into one of these programs. Prospective theatre majors should consult the department's website or contact the department directly for information regarding audition dates and requirements. Prospective students interested in departmental scholarships must audition no later than April 15 of the year they seek admission.

Contact Information
Department of Theatre Arts
Moss Performing Arts Center 141
970.248.1233

Bachelors/Minors

• Dance (BFA) (p. 312)
• Dance (Minor) (p. 315)

Dance (BFA)
Degree: Bachelor of Fine Arts
Major: Dance
Program Code: 3267

About This Major . . .
The Department of Theatre Arts offers one of the most successful training degree programs in Colorado. The Bachelor of Fine Arts in Dance is focused on helping students acquire a sound understanding of the performing arts in state-of-the-art facilities.

Dance at CMU is thriving, with an array of dance styles, performance opportunities and travel. Modern, jazz, ballet and tap are offered from beginning to professional levels. Other courses include composition, improvisation, pedagogy, history, music analysis, healthy dancer and repertory performance.

The faculty members have professional backgrounds in all forms of dance and musical theatre. With four dance concerts a year, Colorado Mesa University provides students with a chance to choreograph original works and to dance for and with visiting guest artists from the professional dance world. Students travel throughout the United States to share the art of dance with other universities and colleges. Dance at Colorado Mesa University features courses with an emphasis on positive reinforcement from challenging professors and a strong technical foundation. It is a place where dancers can establish lifelong relationships as they strive for excellence in the art of dance.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Communicate verbally contemporary and enduring concepts concerning Human Culture through participation and/or observation of the performing arts and speech. (Specialized Knowledge/Communication)
2. Communicate non-verbally contemporary and enduring concepts concerning Human Culture through participation and/or observation of the performing arts and speech. (Specialized Knowledge/Communication)
3. Create progressively more challenging projects through the use of intellectual and/or practical skills. (Applied Learning)
4. Demonstrate teamwork and problem solving skills through collaboration and cooperation on creative projects. (Critical Thinking)
5. Demonstrate the knowledge, skills, and versatility of the discipline from conceptualization to application. (Applied Learning)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course course with a lab</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**
31

1 Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**
6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

**Foundation Courses**
(12 semester hours, must pass all courses with a grade of "C" or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 153</td>
<td>Acting I: Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>DANC 225</td>
<td>The Healthy Dancer</td>
<td>3</td>
</tr>
<tr>
<td>Two consecutive classes in the same foreign language</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**
12

1 FLAS 114 & FLAS 115 will not fulfill this requirement.

**Program Specific Degree Requirements**
(58 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 250</td>
<td>Dance Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>DANC 255</td>
<td>Choreography</td>
<td>3</td>
</tr>
<tr>
<td>DANC 310</td>
<td>Dance Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>DANC 315</td>
<td>History and Philosophy of Dance I</td>
<td>3</td>
</tr>
<tr>
<td>DANC 316</td>
<td>History and Philosophy of Dance II</td>
<td>3</td>
</tr>
<tr>
<td>DANC 328</td>
<td>Music Analysis for Dance</td>
<td>3</td>
</tr>
<tr>
<td>THEA 401</td>
<td>Career Preparation</td>
<td>3</td>
</tr>
<tr>
<td>DANC 494</td>
<td>Senior Dance Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

**Ballet Technique Courses**

Select three of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 234</td>
<td>Ballet IIA</td>
<td>3</td>
</tr>
<tr>
<td>DANC 235</td>
<td>Ballet IIB</td>
<td>3</td>
</tr>
<tr>
<td>DANC 334</td>
<td>Ballet IIIA</td>
<td>3</td>
</tr>
<tr>
<td>DANC 335</td>
<td>Ballet IIIB</td>
<td>3</td>
</tr>
<tr>
<td>DANC 434</td>
<td>Ballet IV</td>
<td>3</td>
</tr>
<tr>
<td>DANC 435</td>
<td>Ballet IVB</td>
<td>3</td>
</tr>
</tbody>
</table>
### Jazz Technique Courses
Select three of the following: 6
- DANC 232 Jazz IIA
- DANC 233 Jazz IIB
- DANC 332 Jazz IIIA
- DANC 333 Jazz IIIB
- DANC 432 Jazz IVA
- DANC 433 Jazz IVB

### Tap Technique Courses
Select two of the following: 4
- DANC 184 Tap I
- DANC 236 Tap IIa
- DANC 237 Tap IIb
- DANC 336 Tap IIIa
- DANC 337 Tap IIIb
- DANC 436 Tap IVa
- DANC 437 Tap IVb

### Modern Technique Courses
Select two of the following: 4
- DANC 183 Modern I
- DANC 230 Modern IIA
- DANC 231 Modern IIIB
- DANC 330 Modern IIIA
- DANC 331 Modern IIIC
- DANC 430 Modern IVa
- DANC 431 Modern IVB

### Additional Technique Courses
Select eight additional semester hours of technique (excluding performance courses) 8

### Performance/Choreography Options
Select four of the following: 4
- DANC 156 Dance Performance
- DANC 256 Dance Performance
- DANC 356 Dance Performance
- DANC 456 Dance Performance
- DANC 290 Choreography Practicum I
- DANC 390 Choreography Practicum II
- DANC 490 Choreography Practicum III

### Dance Support Courses
Select three semester hours from any Theatre or Dance course 3

### Total Semester Credit Hours 58

## General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours, including 40 upper division hours. 13 semester hours, additional hours of upper division may be needed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
<td>13</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>13</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Dance (Minor)

Minor: Dance
Program Code: M220

About This Minor. . .

The Department of Theatre offers one of the most successful theatre training degree programs in Colorado. Students majoring in Theatre Arts can choose from four distinct concentrations (Acting/Directing, Design/Technical, Music Theatre and Dance) and acquire a sound understanding of the performing arts in our newly built, state-of-the-art facilities. Dance, the newest concentration in the Theatre department, is thriving with an array of dance styles, performance opportunities and travel. Modern, jazz, ballet and tap are offered from beginning to professional levels. Other courses include composition, improvisation, pedagogy, history, music analysis, healthy dancer and repertory performance.

The faculty members have professional backgrounds in all forms of dance and musical theatre. With four dance concerts a year, the University provides students with a chance to choreograph original works and to dance for and with visiting guest artists from the professional dance world. Students travel throughout the United States to share the art of dance with other universities and colleges. Dance at CMU features courses with an emphasis on positive reinforcement from challenging professors and a strong technical foundation. It is a place where dancers can establish lifelong relationships as they strive for excellence in the art of dance.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(20 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 225</td>
<td>The Healthy Dancer</td>
<td>3</td>
</tr>
<tr>
<td>DANC 250</td>
<td>Dance Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>DANC 315</td>
<td>History and Philosophy of Dance I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select 8 semester hours of Technique Courses from the following:</td>
<td>8</td>
</tr>
<tr>
<td>DANC 234</td>
<td>Ballet IIA</td>
<td></td>
</tr>
<tr>
<td>DANC 235</td>
<td>Ballet IIB</td>
<td></td>
</tr>
</tbody>
</table>
DANC 334  Ballet IIIA
DANC 335  Ballet IIIB
DANC 434  Ballet IVA
DANC 435  Ballet IVB
DANC 232  Jazz IIA
DANC 233  Jazz IIB
DANC 332  Jazz IIIA
DANC 333  Jazz IIIB
DANC 432  Jazz IVA
DANC 433  Jazz IVB
DANC 184  Tap I
DANC 236  Tap IIa
DANC 237  Tap IIIB
DANC 336  Tap IIIA
DANC 337  Tap IIIB
DANC 436  Tap IVA
DANC 437  Tap IVB
DANC 183  Modern I
DANC 230  Modern IIa
DANC 231  Modern IIIB
DANC 330  Modern IIIA
DANC 331  Modern IIIB
DANC 430  Modern IVA
DANC 431  Modern IVB

Select 2 semester hours of Performance Courses from the following: 2
DANC 156  Dance Performance
   or DANC 256 Dance Performance
   or DANC 356 Dance Performance
   or DANC 456 Dance Performance
DANC 290  Choreography Practicum I
DANC 390  Choreography Practicum II
DANC 490  Choreography Practicum III

Select 2 semester hours of DANC Electives. DANC courses may be repeated once for credit. 2

Total Semester Credit Hours 20

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form. If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
DECISION SUPPORT

(See Computer Information Systems (p. 262))
Digital Filmmaking

Program Description

Students majoring in the Associate of Applied Science in Digital Filmmaking can choose from two distinct emphases — either Writing/Directing or Production Design — and acquire a sound understanding of the narrative film making process. Delivery for both emphases is face-to-face with an extensive project-based learning approach.

The Writing/Directing emphasis helps students understand the craft of narrative film making. Majors focus on screenwriting; cinematography; lighting; basic video editing and audio design; directing talent; leadership and supervision; film producing; production management; freelancing; and essential film marketing.

The Production Design emphasis allows students to hone their "behind-the-scenes" skills by focusing on in-depth video editing; visual effects compositing; art direction; cinematic audio design including surround sound, Foley, and dialogue looping; team-building and supervision; film marketing graphic design; event coordination; product distribution; and freelancing.

Because film making is a highly collaborative business, students from both emphases work together on significant projects. This process allows film students to take advantage of each others' acquired skills.

Contact Information

Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates

• Production Design, Digital Filmmaking (AAS) (p. 323)
• Writing/Directing, Digital Filmmaking (AAS) (p. 325)

Certificates

• Basic Production Design, Digital Filmmaking (Technical Certificate) (p. 318)
• Basic Writing/Directing, Digital Filmmaking (Technical Certificate) (p. 319)
• Intermediate Production Design, Digital Filmmaking (Technical Certificate) (p. 320)
• Intermediate Writing/Directing, Digital Filmmaking (Technical Certificate) (p. 321)
• Production Design Elements, Digital Filmmaking (Technical Certificate) (p. 322)
• Writing/Directing Elements, Digital Filmmaking (Technical Certificate) (p. 324)

Program Specific Degree Requirements

Basic Production Design, Digital Filmmaking (Technical Certificate)

Award: Technical Certificate
Program of Study: Digital Filmmaking

Specialization: Basic Production Design
Program Code: 1125

About This Program . . .

This Digital Filmmaking: Basic Production Design certificate helps prepare students with basic production skills needed for entry-level careers in the film, TV, and commercial video industries.

Institutional Degree Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.
• Consists of 100-200 level courses.
• At least fifty percent of the credit hours must be taken at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A grade lower than “C” will not be counted toward meeting the requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Degree Requirements

(12 semester hours, 2.00 cumulative GPA or higher in program coursework.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 155</td>
<td>Commercial Audio Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 160</td>
<td>Cinema Previsualization</td>
<td>3</td>
</tr>
<tr>
<td>FILM 165</td>
<td>Cinema Production Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 175</td>
<td>Short-Form Video Editing</td>
<td>3</td>
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</table>

Total Semester Credit Hours

12

First Year

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 155</td>
<td>Commercial Audio Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 160</td>
<td>Cinema Previsualization</td>
<td>3</td>
</tr>
<tr>
<td>FILM 165</td>
<td>Cinema Production Design</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Certificates progress in the following order: Elements, Basic, Intermediate.
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Basic Writing/Directing, Digital Filmmaking (Technical Certificate)

Award: Technical Certificate
Program of Study: Digital Filmmaking
Specialization: Basic Writing/Directing
Program Code: 1147

About This Program . . .

This Digital Filmmaking: Basic Writing/Directing certificate helps prepare students with the basic skills needed for entry-level careers in the film, TV, and commercial video industries.
to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html. If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Intermediate Production Design, Digital Filmmaking (Technical Certificate)

Award: Technical Certificate
Program of Study: Digital Filmmaking
Specialization: Intermediate Production Design
Program Code: 1126

About This Program . . .

This Digital Filmmaking: Intermediate Production Design certificate helps prepare students with the intermediate skills needed for entry-level careers in the film, TV, and commercial video industries.

Institutional Degree Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Degree Requirements

(9 semester hours, 2.00 cumulative GPA or higher in program coursework.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 220</td>
<td>Cinema Audio Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 240</td>
<td>Digital Cinematic Effects</td>
<td>3</td>
</tr>
<tr>
<td>FILM 250</td>
<td>Episodic Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
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<td>9</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second Year</td>
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<tr>
<td>Fall Semester</td>
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<td></td>
</tr>
<tr>
<td>FILM 220</td>
<td>Cinema Audio Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 240</td>
<td>Digital Cinematic Effects</td>
<td>3</td>
</tr>
<tr>
<td>FILM 250</td>
<td>Episodic Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>Semester Credit Hours</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic
Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Program Specific Degree Requirements

(7 semester hours, 2.00 cumulative GPA or higher in program coursework.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 210</td>
<td>Cinema Production Management</td>
<td>3</td>
</tr>
<tr>
<td>FILM 230</td>
<td>Episodic Production</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 7

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

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Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Production Design Elements, Digital Filmmaking (Technical Certificate)

Award: Technical Certificate
Program of Study: Digital Filmmaking
Specialization: Production Design Elements
Program Code: 1124

About This Program . . .
This Digital Filmmaking: Production Design Elements certificate helps prepare students with foundational skills needed for entry-level careers in the film, TV, and commercial video industries.

Institutional Degree Requirements
The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.
• Consists of 100-200 level courses.
• At least fifty percent of the credit hours must be taken at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A grade lower than “C” will not be counted toward meeting the requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Degree Requirements
(12 semester hours, 2.00 cumulative GPA or higher in program coursework.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 115</td>
<td>Cinema Design Tools</td>
<td>3</td>
</tr>
<tr>
<td>FILM 125</td>
<td>Production Drawing &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 135</td>
<td>Cinema Editing Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td>FILM 145</td>
<td>Commercial &amp; Corporate Video Editing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 115</td>
<td>Cinema Design Tools</td>
<td>3</td>
</tr>
<tr>
<td>FILM 125</td>
<td>Production Drawing &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 135</td>
<td>Cinema Editing Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td>FILM 145</td>
<td>Commercial &amp; Corporate Video Editing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>12</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
Production Design, Digital Filmmaking (AAS)

Degree: Associate of Applied Science
Major: Digital Filmmaking
Emphasis: Production Design
Program Code: 1303

About This Major...

The Digital Filmmaking: Production Design emphasis prepares and develops students for entry-level careers in the film, broadcast, and commercial video industries. Digital Filmmaking – Production Design is all about using technology to help further a director's story vision to audiences. During this program, you will cover the in-depth fundamentals of research for the production's style and look. You will also use common research skills, collaboration, non-linear video editors and video compositors. Plus, students learn not only the filmmaking business but information they can use if they want to become freelancers.

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(15 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

### Essential Learning Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td></td>
</tr>
</tbody>
</table>

### Communications

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

### Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 222</td>
<td>Mythology-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>THEA 141</td>
<td>Theatre Appreciation-GTAH1</td>
<td>3</td>
</tr>
</tbody>
</table>

### Other Essential Learning Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 115</td>
<td>Cinema Design Tools</td>
<td>3</td>
</tr>
<tr>
<td>FILM 125</td>
<td>Production Drawing &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 135</td>
<td>Cinema Editing Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td>FILM 145</td>
<td>Commerical &amp; Corporate Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>FILM 155</td>
<td>Commercial Audio Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 160</td>
<td>Cinema Previsualization</td>
<td>3</td>
</tr>
<tr>
<td>FILM 165</td>
<td>Cinema Production Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 175</td>
<td>Short-Form Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>FILM 220</td>
<td>Cinema Audio Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 226</td>
<td>Technical Capstone I</td>
<td>3</td>
</tr>
<tr>
<td>FILM 240</td>
<td>Digital Cinematic Effects</td>
<td>3</td>
</tr>
<tr>
<td>FILM 250</td>
<td>Episodic Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>FILM 260</td>
<td>Freelancing for Creatives</td>
<td>3</td>
</tr>
<tr>
<td>FILM 271</td>
<td>Technical Capstone II</td>
<td>3</td>
</tr>
</tbody>
</table>

### Program Specific Degree Requirements

(42 semester hours, must pass all courses with a grade of “C” or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 115</td>
<td>Cinema Design Tools</td>
<td>3</td>
</tr>
<tr>
<td>FILM 125</td>
<td>Production Drawing &amp; Design</td>
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<tr>
<td>FILM 135</td>
<td>Cinema Editing Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td>FILM 145</td>
<td>Commerical &amp; Corporate Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>FILM 155</td>
<td>Commercial Audio Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 160</td>
<td>Cinema Previsualization</td>
<td>3</td>
</tr>
<tr>
<td>FILM 165</td>
<td>Cinema Production Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 175</td>
<td>Short-Form Video Editing</td>
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<tr>
<td>FILM 220</td>
<td>Cinema Audio Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 226</td>
<td>Technical Capstone I</td>
<td>3</td>
</tr>
<tr>
<td>FILM 240</td>
<td>Digital Cinematic Effects</td>
<td>3</td>
</tr>
<tr>
<td>FILM 250</td>
<td>Episodic Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>FILM 260</td>
<td>Freelancing for Creatives</td>
<td>3</td>
</tr>
<tr>
<td>FILM 271</td>
<td>Technical Capstone II</td>
<td>3</td>
</tr>
</tbody>
</table>

### General Electives

1 semester hour of a college level course appearing on final transcript, not listed above to bring total semester hours to 60.)
Writing/Directing Elements, Digital Filmmaking (Technical Certificate)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
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<td>Total Semester Credit Hours</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>FILM 115</td>
<td>Cinema Design Tools</td>
<td>3</td>
</tr>
<tr>
<td>FILM 125</td>
<td>Production Drawing &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 135</td>
<td>Cinema Editing Aesthetics</td>
<td>3</td>
</tr>
<tr>
<td>FILM 145</td>
<td>Commerical &amp; Corporate Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>FILM 155</td>
<td>Commercial Audio Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 160</td>
<td>Cinema Previsualization</td>
<td>3</td>
</tr>
<tr>
<td>FILM 165</td>
<td>Cinema Production Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 175</td>
<td>Short-Form Video Editing</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Second Year</td>
<td></td>
</tr>
<tr>
<td>FILM 220</td>
<td>Cinema Audio Design</td>
<td>3</td>
</tr>
<tr>
<td>FILM 226</td>
<td>Technical Capstone II</td>
<td>3</td>
</tr>
<tr>
<td>FILM 240</td>
<td>Digital Cinematic Effects</td>
<td>3</td>
</tr>
<tr>
<td>FILM 250</td>
<td>Episodic Video Editing</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td>3</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Writing/Directing Elements, Digital Filmmaking (Technical Certificate)

Award: Technical Certificate
Program of Study: Digital Filmmaking
Specialization: Writing/Directing Elements
Program Code: 1146

About This Program . . .

This Digital Filmmaking: Writing/Directing Elements certificate helps prepare students with the foundational skills needed for entry-level careers in the film, TV, and commercial video industries.

Institutional Degree Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Degree Requirements
(12 semester hours, 2.00 cumulative GPA or higher in program coursework.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 110</td>
<td>Film Expression</td>
<td>3</td>
</tr>
<tr>
<td>FILM 120</td>
<td>Film Script Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FILM 130</td>
<td>Short-Form Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>FILM 140</td>
<td>Commercial &amp; Corporate Production</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Course Title Semester Credit Hours
First Year
Fall Semester
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 110</td>
<td>Film Expression</td>
<td>3</td>
</tr>
<tr>
<td>FILM 120</td>
<td>Film Script Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FILM 130</td>
<td>Short-Form Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>FILM 140</td>
<td>Commercial &amp; Corporate Production</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Writing/Directing, Digital Filmmaking (AAS)
Degree: Associate of Applied Science
Major: Digital Filmmaking
Emphasis: Writing/Directing
Program Code: 1304

About This Major...
The Digital Filmmaking: Writing/Directing emphasis prepares and develops students for entry-level jobs in the film, broadcast, and commercial video industries. Digital Filmmaking: Writing/Directing is all about storytelling with production to relay facets of their experiences to audiences. During this program, you’ll cover the in-depth fundamentals of screenwriting, plan and shoot your productions, and implement essential postproduction to present your story. You will also use common research skills, collaboration, actors, lighting and sound, and non-linear editors and video/graphic compositors. Plus, students learn not only the filmmaking business but information they can use if they want to become freelancers.

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with
Writing/Directing, Digital Filmmaking (AAS)

your advisor or academic department to determine which catalog year and program requirements you should follow.

- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(15 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td></td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td></td>
</tr>
</tbody>
</table>

Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Essential Learning Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 222</td>
<td>Mythology-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>THEA 141</td>
<td>Theatre Appreciation-GTAH1</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 15

Other Lower Division Requirements
(2 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
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</tr>
<tr>
<td>Select one Activity course</td>
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</tr>
</tbody>
</table>

Total Semester Credit Hours 2

Program Specific Degree Requirements
(42 semester hours, must pass all courses with a grade of “C” or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FILM 110</td>
<td>Film Expression</td>
<td>3</td>
</tr>
<tr>
<td>FILM 120</td>
<td>Film Script Analysis</td>
<td>3</td>
</tr>
<tr>
<td>FILM 130</td>
<td>Short-Form Screenwriting</td>
<td>3</td>
</tr>
<tr>
<td>FILM 140</td>
<td>Commercial &amp; Corporate Production</td>
<td>3</td>
</tr>
<tr>
<td>FILM 143</td>
<td>Cinema Lighting</td>
<td>3</td>
</tr>
<tr>
<td>FILM 150</td>
<td>Episodic Screenwriting</td>
<td>3</td>
</tr>
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<td>FILM 155</td>
<td>Commercial Audio Design</td>
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<td>FILM 170</td>
<td>Short-Form Production</td>
<td>4</td>
</tr>
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<td>FILM 210</td>
<td>Cinema Production Management</td>
<td>3</td>
</tr>
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<td>FILM 225</td>
<td>Cinema Capstone I</td>
<td>3</td>
</tr>
<tr>
<td>FILM 230</td>
<td>Episodic Production</td>
<td>4</td>
</tr>
<tr>
<td>FILM 260</td>
<td>Freelancing for Creatives</td>
<td>3</td>
</tr>
<tr>
<td>FILM 270</td>
<td>Cinema Capstone II</td>
<td>4</td>
</tr>
<tr>
<td>THEA 141</td>
<td>Theatre Appreciation-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 222</td>
<td>Mythology-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td></td>
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<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td></td>
</tr>
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<td>KINE 100</td>
<td>Health and Wellness</td>
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</tr>
<tr>
<td>Select one Activity course</td>
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<td>1</td>
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<tr>
<td>General Elective</td>
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</table>

Total Semester Credit Hours 60

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others
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Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

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ECONOMICS

(See Business (p. 203))
EDUCATION: EARLY CHILDHOOD

Program Description

Bachelor of Arts

The Early Childhood Special Education program provides teacher education candidates with a broad content knowledge and prepares them as teachers for early childhood including preschool through second/third grade (birth to age 8) in an inclusive setting. Graduates from the bachelor’s program are qualified to receive a Colorado Initial Teaching License in Early Childhood (EC-Age 8) and an endorsement in Early Childhood Special Education (EC-Age 8). As a student, you will gradually accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout western Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings. A minimum of 60 credit hours of essential learning and foundation coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education program. Please see the Teacher Education Admission Packet for further information on admissions criteria.

Associate of Arts

The early childhood certificate program prepares students for careers in licensed early childhood care and education programs and enables students to meet the educational qualifications of the Colorado Department of Human Services. Students who wish to work in licensed early childhood classrooms may complete the director or teacher sequence and then continue on to earn an Associate of Arts in Early Childhood Education. Career options include opportunities in childcare centers and preschools.

The Associate of Arts (AA) with an early childhood education emphasis provides students with a foundation for working with children from birth to age eight in a variety of settings. Our faculty offer one-on-one guidance for course selection, field placements, student teaching and employment. With an increasing focus on quality early education, many organizations are requiring their employees to demonstrate a level of expertise provided by the AA degree. Our students complete their degree with a culminating student teaching experience giving them an opportunity to teach in a preschool classroom for a semester. Graduates of the early childhood program are employed in large and small child care centers, operate their own home care centers, work in other school settings, or use coursework as a foundation to continue into elementary education. In addition, the program aligns with state requirements for early childhood teacher certification and large center director qualification.

Special Requirements

Study directed toward the Associate of Arts degree may serve as a basis for the Bachelor of Arts degree with elementary education licensure. Programs of study are sequential and advanced planning is necessary for an efficient transition from an associate program to a baccalaureate program. Faculty advisors assist students in planning courses to meet requirements. Students seeking childcare center director qualification should meet with an advisor in order to meet specific certification requirements.

Contact Information

Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670
--or--
Center for Teacher Education
Dominguez Hall 109L
970.248.1786

Associates

- Education: Early Childhood Education, Liberal Arts (AA) (p. 332)

Bachelors/Minors

- Education: Early Childhood Special Education, Early Childhood Education (BA) (p. 329)

Certificates

- Education: Early Childhood Education Director (Technical Certificate) (p. 335)
- Education: Early Childhood Education Entry-Level Teacher (Technical Certificate) (p. 336)
- Education: Early Childhood Education Teacher (Technical Certificate) (p. 337)

Education: Early Childhood Special Education, Early Childhood Education (BA)

Degree: Bachelor of Arts
Major: Early Childhood Education
Concentration: Early Childhood Special Education
Program Code: 3204

About This Major . . .

The Center for Teacher Education offers a comprehensive program of study that leads to licensure in Colorado. Our professors are experienced, knowledgeable, accessible, and dedicated to the improvement of public education. At Colorado Mesa, we pride ourselves on the personal touch. Faculty offer one-on-one guidance for course selection, field placements, student teaching and employment. Our mission is to develop Educators as Innovators; we are always looking to improve the quality of learning in our programs and early childhood and K-12 schools.

As a student, you will gradually accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout western Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings.

The Early Childhood Special Education program provides teacher education candidates with a broad content knowledge and prepares them as teachers for early childhood including preschool through second/third grade (birth to age 8) in an inclusive setting. A minimum of 60 credit hours of essential learning and foundation coursework must be
Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:

- 123 semester hours total for the BA in Early Childhood Education, Early Childhood Special Education.
- 2.80 cumulative GPA or higher in all CMU coursework.
- 2.80 cumulative GPA or higher in coursework toward the major content area.
- All ECSE/EDUC prefix courses must be completed with a grade of B or better.
- All other coursework toward the degree must be successfully completed prior to the internship.
- A grade of C or better must be earned in all required courses, unless otherwise stated.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Elements of Mathematics II-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one Fine Arts course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course</td>
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<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>31</td>
<td></td>
</tr>
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</table>

1 Must receive a grade of "B" or better and must be completed by the time the student has 60 semester hours.
Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
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<tr>
<td>EDEC 101</td>
<td>Introduction to Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 103</td>
<td>Guidance Strategies</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Elements of Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 113</td>
<td>Infant and Toddler Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 122</td>
<td>Ethics in Early Childhood Education</td>
<td>1</td>
</tr>
<tr>
<td>EDEC 205</td>
<td>Nutrition, Health, Safety</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 238</td>
<td>Early Childhood Development 0-8 Years</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 240</td>
<td>Curriculum and Development: Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 241</td>
<td>Early Childhood Administration: Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 250</td>
<td>Exceptionalities in Early Education</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 290</td>
<td>Early Literacy for the Young Child</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses (30 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
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<td>Introduction to Early Childhood</td>
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<tr>
<td>EDEC 103</td>
<td>Guidance Strategies</td>
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</tr>
<tr>
<td>MATH 105</td>
<td>Elements of Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 113</td>
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<td>EDEC 122</td>
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<td>EDEC 250</td>
<td>Exceptionalities in Early Education</td>
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</tr>
<tr>
<td>EDEC 290</td>
<td>Early Literacy for the Young Child</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 30

Program Specific Degree Requirements

(50 semester hours, must earn a grade of "C" or better in each course, unless otherwise stated, and maintain a 2.80 cumulative GPA or higher in coursework in this area.)

- All ECSE/EDUC prefix courses must be completed with a grade of B or better.
- All other coursework toward the degree must be successfully completed prior to the internship.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 311</td>
<td>Creative and Physical Expressions for Children</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 340</td>
<td>Pedagogical and Assessment Knowledge for Teachers: Early Childhood, Birth - 8 years (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 343</td>
<td>Teaching to Diversity (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 374</td>
<td>Exceptional and English Language Learners in the Inclusive Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 378</td>
<td>Technology for K-12 Educators</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 301</td>
<td>Emergent Literacy for Early Childhood (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>ECSE 320</td>
<td>Learner Development and Individual Differences</td>
<td>3</td>
</tr>
<tr>
<td>ECSE 435</td>
<td>Assessment and Evaluation of the Young Child, Birth-8 Years (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>ECSE 410</td>
<td>Building Family and Community Partnerships</td>
<td>1</td>
</tr>
<tr>
<td>ECSE 430</td>
<td>Instructional Strategies for Inclusion and Intervention, Birth-8 Years (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 440</td>
<td>Methods of Teaching Language and Literacy: EC (40 field experience hours)</td>
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<tr>
<td>EDUC 451</td>
<td>Methods of Teaching Mathematics: Early Childhood/Elementary (60 field experience hours)</td>
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<tr>
<td>EDUC 461</td>
<td>Methods of Teaching Science and Social Studies: Early Childhood/Elementary</td>
<td>3</td>
</tr>
<tr>
<td>ECSE 450</td>
<td>Individual Behavior Support and Guidance with Young Learners</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 499A</td>
<td>Teaching Internship and Colloquia: K-2 (300 field experience hours)</td>
<td>6</td>
</tr>
<tr>
<td>ECSE 499</td>
<td>Teaching Internship and Colloquia: Early Childhood Ages 3 - 5/Pre-K (300 field experience hours)</td>
<td>6</td>
</tr>
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</table>

Total Semester Credit Hours 50

1 Course enrollment includes 800 field experience hours.

All ECSE/EDUC prefix courses listed above must be completed with a grade of B or better to progress through the program sequence. Students must PASS the PRAXIS II exam in the content area prior to commencing the internship. Also, ALL other coursework toward the degree must be successfully completed prior to the internship.

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 123 hours. 6 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 111</td>
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<td>PSYC 150</td>
<td>General Psychology GTS53</td>
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<td>EDEC 101</td>
<td>Introduction to Early Childhood</td>
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</tr>
<tr>
<td>EDEC 103</td>
<td>Guidance Strategies</td>
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Total Semester Credit Hours 6
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>KINE 100</td>
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<td><strong>Spring Semester</strong></td>
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<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 205</td>
<td>Nutrition, Health, Safety</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 240</td>
<td>Curriculum and Development: Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 241</td>
<td>Early Childhood Administration: Human Relations</td>
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<td><strong>Total Semester Credit Hours</strong></td>
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<td><strong>Second Year</strong></td>
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<td><strong>Fall Semester</strong></td>
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<tr>
<td>MATH 105</td>
<td>Elements of Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 205</td>
<td>Nutrition, Health, Safety</td>
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<td>EDEC 241</td>
<td>Early Childhood Administration: Human Relations</td>
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</tr>
<tr>
<td>KINA Activity</td>
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<td>MATH 205</td>
<td>Elements of Mathematics II-GTMAI</td>
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<tr>
<td>EDEC 290</td>
<td>Early Literacy for the Young Child</td>
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<tr>
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<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
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<td></td>
<td><strong>Third Year</strong></td>
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<td></td>
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<tr>
<td>EDEC 340</td>
<td>Pedagogical and Assessment Knowledge for Teachers: Early Childhood/Elementary</td>
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<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>EDUC 331</td>
<td>Creative and Physical Expressions for Children</td>
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<td>Technology for K-12 Educators</td>
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<td><strong>Semester Credit Hours</strong></td>
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<td></td>
<td><strong>Spring Semester</strong></td>
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</tr>
<tr>
<td>EDUC 499A</td>
<td>Teaching Internship and Colloquia: K-2</td>
<td>6</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Education: Early Childhood Education, Liberal Arts (AA)

Degree: Associate of Arts
Major: Liberal Arts
Emphasis: Early Childhood Education
Program Code: 2263

About This Major...

This degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The A.A. is the appropriate choice for students, who will take upper division coursework in the arts, humanities, or social and behavioral sciences. The degree program includes the Colorado Statewide General Education Core and meets the
lower division general education requirements at most public institutions in Colorado.

The Early Childhood Education Program provides students with a foundation for working with children from birth to age eight in a variety of settings. Our faculty offer one-on-one guidance for course selection, field placements, student teaching and employment.

With an increasing focus on quality early education, many organizations are requiring their employees to demonstrate a level of expertise provided by this AA degree. Our students complete their degree with a culminating student teaching experience giving them an opportunity to teach in a working classroom in the community for a semester.

Graduates of the early childhood program go on to be employed in large and small child care centers, open up their own home care centers, work in public school settings, or use coursework as a foundation to continue into Early Childhood or elementary teacher license education. In addition, our program aligns with state requirements for early childhood teacher certification and large center director qualification.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply the National Association for the Education of Young Children principles and practices in interactions with young children, families and other professionals. (Applied Learning)
2. Utilize mathematical skills required to instruct young children. (Quantitative Fluency)
3. Demonstrate effective written communication skills. (Communication Fluency)
4. Demonstrate effective verbal communication skills. (Communication Fluency)
5. Analyze interactions and teaching experiences from personal journals/administrative evaluations to improve teaching practices. (Critical Thinking/ Specialized Knowledge)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU or WCCC Associate of Arts (AA) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours total.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade of “C” or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado’s guaranteed transfer program.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 15 semester credit hours for an AA degree. A maximum of 6 of the 15 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:
- Must maintain a 2.5 cumulative GPA or higher in all CMU coursework.
- Students must have current First Aid/CPR cards.
- Student must create a portfolio following department requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

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<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

1 Must receive a grade of “B” or better and must be completed by the time the student has 60 semester hours.
2 Must receive a grade of “C” or better and must be complete by the time the student has 60 semester hours.
3 One course must include a lab.
Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wellness Requirement</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
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</tr>
<tr>
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Program Specific Degree Requirements

(27 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Core Courses</td>
<td></td>
</tr>
<tr>
<td>EDEC 238</td>
<td>Early Childhood Development 0-8 Years</td>
<td>3</td>
</tr>
<tr>
<td>or PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 101</td>
<td>Introduction to Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 113</td>
<td>Infant and Toddler Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 122</td>
<td>Ethics in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 240</td>
<td>Curriculum and Development: Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 250</td>
<td>Exceptionalities in Early Education</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 299</td>
<td>Student Teaching in Early Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td>1 For students who do not wish to pursue Director Qualification, PSYC 233 can be taken to fulfill the core requirement.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Restricted Electives</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select eight semester hours of the following:</td>
<td>8</td>
</tr>
<tr>
<td>EDEC 102</td>
<td>Introduction to Early Childhood Professions Lab Experiences</td>
<td></td>
</tr>
<tr>
<td>EDEC 103</td>
<td>Guidance Strategies</td>
<td></td>
</tr>
<tr>
<td>EDEC 114</td>
<td>Introduction to Infant/Toddler Lab Techniques</td>
<td></td>
</tr>
<tr>
<td>EDEC 196</td>
<td>Topics</td>
<td></td>
</tr>
<tr>
<td>EDEC 205</td>
<td>Nutrition, Health, Safety</td>
<td></td>
</tr>
<tr>
<td>EDEC 230</td>
<td>Curriculum and Development: Infant/Toddler</td>
<td></td>
</tr>
<tr>
<td>EDEC 237</td>
<td>Theories and Techniques of Social and Emotional Growth</td>
<td></td>
</tr>
<tr>
<td>EDEC 241</td>
<td>Early Childhood Administration: Human Relations</td>
<td></td>
</tr>
<tr>
<td>EDEC 256</td>
<td>Working with Parents, Families, and Community Systems</td>
<td></td>
</tr>
<tr>
<td>EDEC 264</td>
<td>Administration in Early Education</td>
<td></td>
</tr>
<tr>
<td>EDEC 290</td>
<td>Early Literacy for the Young Child</td>
<td></td>
</tr>
<tr>
<td>EDEC 297</td>
<td>Practicum</td>
<td></td>
</tr>
<tr>
<td>ENGL 240</td>
<td>Children's Literature</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>8</td>
</tr>
</tbody>
</table>

First Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ENGL 111</td>
<td>English Composition-GTCD01</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>KINA Activity</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EDEC 101</td>
<td>Introduction to Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ENGL 112</td>
<td>English Composition-GTCD2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EDEC 122</td>
<td>Ethics in Early Childhood Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EDEC 240</td>
<td>Curriculum and Development: Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Early Childhood Education Restricted Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EDEC 238 or PSYC 233</td>
<td>Early Childhood Development 0-8 Years</td>
<td>or Human Growth and Development-GTSS3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>14</td>
<td></td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Essential Learning - Natural Science with Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EDEC 113</td>
<td>Infant and Toddler Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Early Childhood Education Restricted Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EDEC 299</td>
<td>Student Teaching in Early Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EDEC 250</td>
<td>Exceptionalities in Early Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Early Childhood Education Restricted Elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>14</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 60

Students that intend to continue with Colorado Mesa University should take ESSL 290 and ESSL 200 during the final semester of their Associate of Arts work.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.
Graduation Process
Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Education: Early Childhood Education Director (Technical Certificate)

Degree: Technical Certificate
Program of Study: Early Childhood Education Director
Program Code: 1192

About This Major . . .
This certificate prepares students for careers in licensed early childhood care and education programs. The Director certificate enables students to meet the educational qualifications of the Colorado Department of Human Services. Students who wish to work in licensed early childhood classrooms may complete the Director sequence and then continue on to earn an Associate of Arts degree in Early Childhood Education. Career options include opportunities in childcare centers and pre-schools both public and private.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate effective written communication skills (Communication Fluency)
2. Demonstrate effective oral communication skills (Communication Fluency)
3. Utilize mathematical concepts required to create a child care business budget (Quantitative Fluency)
4. Analyze data collected from different evaluation tools to create logical next-step solutions for improving quality in a child care business. (Critical Thinking)
5. Create documents that are substantially error-free for families, staff and government agencies using current early childhood professional terminology. (Applied Learning)
6. Apply the National Association for the Education of Young Children principles and practices in interactions with young children, families, and other professionals. (Applied Learning)

Institutional Certificate Requirements
The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-college courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(30 semester hours, must maintain a 2.00 cumulative GPA or higher in all coursework.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 101</td>
<td>Introduction to Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 102</td>
<td>Introduction to Early Childhood Professions Lab Experiences or EDEC 299</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 103</td>
<td>Guidance Strategies</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 113</td>
<td>Infant and Toddler Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 205</td>
<td>Nutrition, Health, Safety</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 238</td>
<td>Early Childhood Development 0-8 Years</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 240</td>
<td>Curriculum and Development: Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 241</td>
<td>Early Childhood Administration: Human Relations</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 250</td>
<td>Exceptionalities in Early Education</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 264</td>
<td>Administration in Early Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 30
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.

Education: Early Childhood Education Entry-Level Teacher (Technical Certificate)

Degree: Technical Certificate
Program of Study: Early Childhood Education Entry-Level Teacher
Program Code: 1194

About This Major . . .

The Early Childhood Education program is designed to prepare students to work with young children (birth to age eight) in a variety of settings. This certificate is designed for students wishing to work as lead teachers in a childcare classroom. Students who wish to work in licensed early childhood care and education programs may complete the sequence of courses for Early Childhood Education Entry-Level Teacher and then continue on to earn an Associate of Arts degree in Early Childhood Education. The Early Childhood Education Entry-Level Teacher certificate enables students to meet the educational qualifications established by the Colorado Department of Human Services.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate effective written communication skills. (Communication Fluency)
2. Demonstrate effective written verbal skills (Communication Fluency)
3. Utilize mathematical skills required to assist the classroom teacher with instruction of young children (Quantitative Fluency)
4. Evaluate current professional resources relating to several different domains of early childhood education. (Critical Thinking)
5. Explain the impact of the Colorado Department of Child Care Rules and Regulations on children and families. (Specialized Knowledge)
6. Apply the National Association for the Education of Young Children principles and practices in interactions with young children, families and other professionals. (Applied Learning)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(9 semester hours, must maintain a 2.00 cumulative GPA or higher in all coursework.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>EDEC 101</td>
<td>Introduction to Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td>3</td>
</tr>
<tr>
<td>EDEC 103</td>
<td>Guidance Strategies</td>
<td></td>
</tr>
<tr>
<td>EDEC 113</td>
<td>Infant and Toddler Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>EDEC 238</td>
<td>Early Childhood Development 0-8 Years</td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>EDEC 102</td>
<td>Introduction to Early Childhood Professions Lab Experiences</td>
<td></td>
</tr>
<tr>
<td>EDEC 114</td>
<td>Introduction to Infant/Toddler Lab Techniques</td>
<td></td>
</tr>
<tr>
<td>EDEC 299</td>
<td>Student Teaching in Early Education</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 9

Course Title Semester Credit Hours

First Year
Fall Semester
EDEC 101 Introduction to Early Childhood 3
Select one of the following: 3
| EDEC 103 | Guidance Strategies                     |                       |
| EDEC 113 | Infant and Toddler Theory and Practice  |                       |
| EDEC 238 | Early Childhood Development 0-8 Years   |                       |

Spring Semester
Select one of the following: 3
| EDEC 102 | Introduction to Early Childhood Professions Lab Experiences | |
| EDEC 114 | Introduction to Infant/Toddler Lab Techniques | |
| EDEC 299 | Student Teaching in Early Education     |                       |

Semester Credit Hours 6
Total Semester Credit Hours 9

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around.

Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Education: Early Childhood Education Teacher (Technical Certificate)

Degree: Technical Certificate
Program of Study: Early Childhood Education Teacher
Program Code: 1193

About This Major . . .

The Early Childhood Education program is designed to prepare students to work with young children (birth to age eight in a variety of settings. This certificate is designed for students wishing to work as lead teachers in a childcare classroom. Students who wish to work in licensed early childhood care and education programs may complete the sequence of courses for Early Childhood Education Teacher and then continue on to earn an Associate of Arts degree in Early Childhood Education. The Early Childhood Education Teacher certificate enables students to meet the educational qualifications established by the Colorado Department of Human Services.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:
1. Demonstrate effective written communication skills. (Communication Fluency)
2. Demonstrate effective written verbal skills (Communication Fluency)
3. Utilize mathematical skills required to instruct young children (Quantitative Fluency)
4. Evaluate current professional resources relating to several different domains of early childhood education. (Critical Thinking)
5. Create documents that are substantially error-free for children and families using current early childhood professional terminology (Specialized Knowledge)
6. Apply the National Association for the Education of Young Children principles and practices in interactions with young children, families and other professionals. (Applied Learning)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(16 semester hours, must maintain a 2.00 cumulative GPA or higher in all coursework.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDEC 101</td>
<td>Introduction to Early Childhood</td>
<td>3</td>
</tr>
<tr>
<td>EDEC 101</td>
<td>or EDEC 113 Infant and Toddler Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>EDEC 102</td>
<td>Introduction to Early Childhood Professions Lab Experiences</td>
<td>3</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
**EDUCATION: TEACHER LICENSURE**

**Program Description**

The Center for Teacher Education offers Initial Teaching License programs in elementary, secondary and K-12 education. An Initial Teaching License for public schools in the state of Colorado requires each teacher candidate to complete coursework in a content area and a sequence of professional education courses that include extensive field experience and classroom placements. For undergraduate students, teacher license coursework and field experiences are completed through the Center for Teacher Education, while the content degree coursework is completed in the academic department of the discipline area. Both departments coordinate to assist teacher candidates in completing the program. Formal admission to the Center for Teacher Education is required of all students planning to obtain a Colorado Educator License. Admission to Colorado Mesa University does not guarantee admission to the Teacher Education program, which requires a separate application process. Contact the Center for Teacher Education for information; also see the section in this catalog on the Center for Teacher Education.

In order to complete all license requirements in a timely manner, it is important that students contact the center as soon as possible after enrolling at Colorado Mesa University. Interested students should enroll in EDUC 115 and EDUC 215 before applying for formal admission to the Center for Teacher Education.

Please see Graduate Programs for post-graduate options for the initial teaching license.

**Contact Information**

Center for Teacher Education
Dominguez Hall, Suite 109
970.248.1786

**Graduate**

- Applied Mathematics (Graduate Certificate) (p. 358)
- Education: Applied Mathematics (MAEd) (p. 340)
- Education: Educational Leadership (EDLD) (Graduate Certificate) (p. 360)
- Education: Educational Leadership (EDLD) (MA, Education) (p. 342)
- Education: English for Speakers of Other Languages (ESOL) (Graduate Certificate) (p. 362)
- Education: English for Speakers of Other Languages (ESOL) (MA, Education) (p. 344)
- Education: Exceptional Learner/Special Education (EDSE) (Graduate Certificate) (p. 363)
- Education: Exceptional Learner/Special Education (EDSE) (MA, Education) (p. 345)
- Education: Initial Teacher Licensure - Elementary (Graduate Certificate) (p. 365)
- Education: Initial Teacher Licensure - Elementary (MA, Education) (p. 347)
- Education: Initial Teacher Licensure - Secondary (Graduate Certificate) (p. 366)
- Education: Initial Teacher Licensure - Secondary (MA, Education) (p. 349)
- Education: Initial Teacher Licensure K-12 Physical Education (Graduate Certificate) (p. 352)
- Education: Initial Teacher Licensure K-12 Physical Education (MAEd) (p. 350)
- Education: Rhetoric and Literary Studies (MAEd) (p. 355)
- Education: Social Science (MAEd) (p. 357)
- Education: Teacher Leader (EDTL) (Graduate Certificate) (p. 370)
- Education: Teacher Leader (MA, Education) (p. 353)
- Rhetoric and Literary Studies (Graduate Certificate) (p. 367)
- Social Science (Graduate Certificate) (p. 369)

**Education: Applied Mathematics (MAEd)**

Award: Master of Arts in Education
Program of Study: Applied Mathematics
Program Code: 8241

**About This Major . . .**

The Master of Arts in Education, Applied Mathematics is a 32-hour program.

Important information about this program:

- A bachelor's degree from an accredited college is required, prior to beginning the program.
- A fully completed application including official transcripts is required prior to beginning the program.
- Acceptance into the Applied Mathematics graduate certificate program.
- 32 semester hours and capstone presentation are required for the Master of Arts in Education Degree in Applied Mathematics.
- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU program completers are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, all recipients of an Applied Mathematics Graduate Certificate will be able to:

1. Employ mathematical, computational and/or statistical methods to address topics in applied mathematics (specialized knowledge/applied learning, quantitative fluency);
2. Create oral and written arguments, well-grounded in theories and methods of applied mathematics (communication fluency, quantitative fluency);
3. Formulate and evaluate hypotheses related to applied problems, issues, concepts, and perspectives (critical thinking, quantitative fluency).

In addition, the Master of Arts in Education graduate will be able to:

1. Create and deliver oral and written communication based on sound educational theory and research for public education. (Communication Fluency)
2. Evaluate and formulate education plans based on research, current issues, and public education stakeholders. (Critical Thinking and Specialized Knowledge)

3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)

4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges for instruction. (Ethical Reasoning)

5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Quantitative Fluency)

6. Work individually and collaboratively on research based change and innovation in education. (Specialized Knowledge and Applied Learning).

Institutional Graduate Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.
- Master’s degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Requirements

(32 semester hours, must pass all courses with a grade of “B” or better.)

- 32 semester hours and capstone presentation are required for the Master of Arts in Education Degree in Applied Mathematics.
- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 500</td>
<td>Introduction to Graduate Studies in Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 510</td>
<td>Applied Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 520</td>
<td>Applied Numerical Methods</td>
<td>3</td>
</tr>
</tbody>
</table>

Restricted Elective Courses

Select 9 credits from the following courses:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 530</td>
<td>Applied Mathematical Modeling</td>
</tr>
<tr>
<td>MATH 540</td>
<td>Applied Audio and Image Processing</td>
</tr>
<tr>
<td>MATH 550</td>
<td>Mathematical Logic and Foundations in Mathematics</td>
</tr>
<tr>
<td>MATH 560</td>
<td>Applied Number Theory</td>
</tr>
<tr>
<td>MATH 570</td>
<td>Applied Cryptography</td>
</tr>
<tr>
<td>MATH 596</td>
<td>Topics</td>
</tr>
</tbody>
</table>

Master of Arts in Education Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 500</td>
<td>Culture and Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 501</td>
<td>Educational Technology</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 502</td>
<td>Theory, Design &amp; Assessment of Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 503</td>
<td>Introduction to Educational Research and Design</td>
<td>3</td>
</tr>
<tr>
<td>EDTL 513</td>
<td>Information Based Educational Practice and Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

Capstone 1

Total Semester Credit Hours 32

1 The Master of Arts in Education requires the successful completion of the capstone competency. The capstone culminates in a professional presentation representing enduring understanding illustrating a synthesis of learning. This presentation must represent sufficient rigor to earn final approval from Colorado Mesa University to grant the Master of Arts degree in Education.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 500</td>
<td>Culture and Pedagogy</td>
</tr>
<tr>
<td>EDUC 501</td>
<td>Educational Technology</td>
</tr>
<tr>
<td>EDUC 502</td>
<td>Theory, Design &amp; Assessment of Curriculum</td>
</tr>
<tr>
<td>EDUC 503</td>
<td>Introduction to Educational Research and Design</td>
</tr>
<tr>
<td>EDTL 513</td>
<td>Information Based Educational Practice and Statistics</td>
</tr>
</tbody>
</table>

First Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Semester</td>
<td>EDUC 502</td>
<td>Theory, Design &amp; Assessment of Curriculum</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 500</td>
<td>Introduction to Graduate Studies in Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Semester Credit Hours</td>
<td>6</td>
</tr>
<tr>
<td>Fall Semester</td>
<td>EDUC 501</td>
<td>Educational Technology</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>MATH 510</td>
<td>Applied Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Semester Credit Hours</td>
<td>5</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>EDTL 513</td>
<td>Information Based Educational Practice and Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>MATH 520</td>
<td>Applied Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Semester Credit Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer Semester</td>
<td>EDUC 500</td>
<td>Culture and Pedagogy</td>
</tr>
<tr>
<td></td>
<td>EDUC 502</td>
<td>Theory, Design &amp; Assessment of Curriculum</td>
</tr>
<tr>
<td></td>
<td>EDUC 503</td>
<td>Introduction to Educational Research and Design</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Semester Credit Hours</td>
</tr>
<tr>
<td>Fall Semester</td>
<td>Capstone Presentation</td>
<td></td>
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<tr>
<td></td>
<td>Restricted Elective</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Semester Credit Hours</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>Restricted Elective</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Semester Credit Hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total Semester Credit Hours</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Education: Educational Leadership (EDLD) (MA, Education)

Degree: Master of Arts in Education
Program of Study: Educational Leadership (EDLD)
Program Code: 8201

About This Major . . .

The Master of Arts in Education, Educational Leadership/Principal Licensure is designed as a dynamic program to meet the needs of education professionals as they gain additional expertise in one or more state endorsement areas. The degree is awarded after successful completion of 37 semester hours for the Educational Leadership concentration. The program is designed to provide the student with 11 hours of Master's foundation knowledge in theory of curriculum design and assessment, educational technology, culture and pedagogy, and research. The subsequent courses focus on Educational Leadership skills and competencies.

The program is guided and adheres to the Colorado Professional Standards for Principals. Admission to the program follows the stated guidelines for graduate admission procedures outlined in the university catalog. Additionally, students must provide three letters of reference from the profession, educator professional license, and a statement of purpose. Applicants must hold a valid teaching licensure to be considered for admission. The degree is granted after completion of all courses with a grade of B or better, successful completion of a capstone project, and a ranking of proficient or better on all elements of a comprehensive exam.

Important information about this program:

- A bachelor's degree from an accredited college is required, prior to beginning the program.
- A fully completed application including official transcripts is required prior to beginning the program.
- Applicants must hold a valid Professional Colorado Educator License.
- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU master-level graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, a Master of Arts in Education (Educational Leadership) graduate will be able to:

1. Create and deliver oral and written communication based on sound educational theory and research for public education leadership. (Communication Fluency)
2. Evaluate and formulate education plans based on research, current issues, and public education stakeholders. (Critical Thinking and Specialized Knowledge)
3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)
4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges from the perspective of an educational leader. (Ethical Reasoning)
5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Quantitative Fluency)
6. Work individually and collaboratively on research-based change and innovation in Education. (Specialized Knowledge and Applied Learning)

Institutional Graduate Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.
- Master's degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
• Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Requirements

(37 semester hours, must earn a “B” or better in each course)

• It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 500</td>
<td>Culture and Pedagogy</td>
<td></td>
</tr>
<tr>
<td>EDUC 501</td>
<td>Educational Technology</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 502</td>
<td>Theory, Design &amp; Assessment of Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 503</td>
<td>Introduction to Educational Research and Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDLD 504</td>
<td>Best Practices in Curriculum, Assessment, Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDLD 505</td>
<td>Reform and Organizational Change in Education</td>
<td>2</td>
</tr>
<tr>
<td>EDTL 513</td>
<td>Information Based Educational Practice and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>EDLD 515</td>
<td>Dynamic School Leadership in a Democratic Society: Introduction to School Administration</td>
<td>2</td>
</tr>
</tbody>
</table>

EDLD 520A Principalship I 2
EDLD 520B Principalship II 2
EDLD 530 Legal Aspects of School Administration: Educational Policy and the Law 2
EDLD 531 School Finance and Budgeting 1
EDLD 535 Internship in Educational Leadership I 1
EDLD 540 School Improvement and Accountability 2
EDLD 542 Instructional Supervision and Management/HR 3
EDLD 544 Strategies in School Improvement 2
EDLD 545 Internship in Educational Leadership II 1

Capstone 1

Comprehensive Exam 2

Total Semester Credit Hours 37

1 The Master of Arts in Education requires the successful completion of the capstone competency. The capstone culminates in a professional presentation representing enduring understanding illustrating a synthesis of learning. This presentation must represent sufficient rigor to garner final approval from Colorado Mesa University to grant the Master of Arts degree in Education. Educational Leadership students will do their oral presentation in their school or district as part of their requirements for the Internship.

2 Educational Leadership students are required to achieve proficiency on all elements of a comprehensive exam taken the final semester of the program. The written exam evaluates the critical thinking and problem solving skills of candidates in relation to the Colorado Professional Standards for Principals.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 502</td>
<td>Theory, Design &amp; Assessment of Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 503</td>
<td>Introduction to Educational Research and Design</td>
<td>3</td>
</tr>
<tr>
<td>EDLD 515</td>
<td>Dynamic School Leadership in a Democratic Society: Introduction to School Administration</td>
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<tr>
<td>EDLD 520A</td>
<td>Principalship I</td>
<td>2</td>
</tr>
<tr>
<td>EDLD 531</td>
<td>School Finance and Budgeting</td>
<td>1</td>
</tr>
<tr>
<td>EDLD 535</td>
<td>Internship in Educational Leadership I</td>
<td>1</td>
</tr>
<tr>
<td>EDLD 540</td>
<td>School Improvement and Accountability</td>
<td>2</td>
</tr>
<tr>
<td>EDLD 542</td>
<td>Instructional Supervision and Management/HR</td>
<td>3</td>
</tr>
<tr>
<td>EDLD 544</td>
<td>Strategies in School Improvement</td>
<td>2</td>
</tr>
<tr>
<td>EDLD 545</td>
<td>Internship in Educational Leadership II</td>
<td>1</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis.
and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Education: English for Speakers of Other Languages (ESOL) (MA, Education)

Degree: Master of Arts in Education 
Program of Study: English for Speakers of Other Languages 
Program Code: 8200

About This Major . . .
The Master of Arts in Education, English for Speakers of Other Languages is designed as a dynamic program to meet the needs of education professionals as they gain additional expertise in one or more state endorsement areas. The degree is awarded after successful completion of 35 semester hours. The program is designed to provide the student with eleven hours of core knowledge in theory of curriculum design and assessment, educational technology, culture and pedagogy, and research. The additional coursework allows the student to focus on an English for Speakers of Other Languages (ESOL) concentration.

The program is designed using the cohort model with a group of participants completing all requirements in a two-year cycle. Admission to the program follows the stated guidelines for graduate admission procedures outlined in the university catalog. Additionally, students must provide two letters of reference from the profession and a statement of purpose.

Important information about this program:

- A bachelor’s degree from an accredited college is required, prior to beginning the program.
- A fully completed application including official transcripts is required prior to beginning the program.
- Applicants must hold a valid Colorado Educator License.

- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU master-level graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, a Master of Arts in Education (English for Speakers of Other Languages) graduate will be able to:

1. Create and deliver oral and written communication based on sound educational theory and research for public education of diverse English Language Learners. (Communication Fluency)
2. Evaluate and formulate education plans based on research, current issues, and public education stakeholders. (Critical Thinking and Specialized Knowledge)
3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)
4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges for instruction of English Language Learners. (Ethical Reasoning)
5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Quantitative Fluency)
6. Work individually and collaboratively on research-based change and innovation in Education. (Specialized Knowledge and Applied Learning)

Institutional Graduate Degree Requirements
The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours. 
  Master's degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Requirements
(35 semester hours, must earn a “B” or better in each course.)
• It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

### Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>EDUC 500</td>
<td>Culture and Pedagogy</td>
<td>3</td>
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<tr>
<td>EDUC 501</td>
<td>Educational Technology</td>
<td>2</td>
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<tr>
<td>EDUC 502</td>
<td>Theory, Design &amp; Assessment of Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 503</td>
<td>Introduction to Educational Research and Design</td>
<td>3</td>
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</tbody>
</table>

### English for Speakers of Other Languages Courses

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>EDUC 504</td>
<td>Methods of Teaching English as a Second Language</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 510</td>
<td>ESL Strategies/Content Areas</td>
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<tr>
<td>EDUC 535</td>
<td>Internship in ESOL: K-6</td>
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<tr>
<td>ENGL 543</td>
<td>Language Systems and Linguistic Diversity</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 545</td>
<td>Internship in ESOL: 7-12</td>
<td>3</td>
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<tr>
<td>EDUC 554</td>
<td>Theories of Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 555</td>
<td>Multicultural Narratives/K-12</td>
<td>3</td>
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<tr>
<td>EDUC 556</td>
<td>Assessment in English as a Second Language</td>
<td>3</td>
</tr>
</tbody>
</table>

Capstone ¹

Total Semester Credit Hours 35

¹ The Master of Arts in Education requires the successful completion of the capstone competency. The capstone culminates in a professional presentation representing enduring understanding illustrating a synthesis of learning. This presentation must represent sufficient rigor to garner final approval from Colorado Mesa University to grant the Master of Arts degree in Education. Educational Leadership students will do their oral presentation in their school or district as part of their requirements for the Internship.

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

### Education: Exceptional Learner/Special Education (EDSE) (MA, Education)

Degree: Master of Arts in Education
Program of Study: Exceptional Learner/Special Education (EDSE)
Program Code: 8216

### About This Major . . .

The Master of Arts in Education, Exceptional Learner/Special Education is designed as a dynamic program to meet the needs of education professionals as they gain additional expertise in one or more state endorsement areas. The degree is awarded after successful completion of 35 semester hours and a Capstone Project. The program is designed to provide the student with 11 hours of Master’s foundation knowledge.
in theory of curriculum design and assessment, educational technology, culture and pedagogy, and research. The subsequent courses focus on Exceptional Learner/Special Education skills and competencies.

The program is designed in accordance with the Council for Exceptional Children (CEC) accreditation standards for Special Education generalist endorsement and approved by the Colorado Department of Education. Admission to the program follows the stated guidelines for graduate admission procedures outlined in the university catalog. Additionally, students must provide three letters of reference from the profession, educator professional license, and a statement of purpose. Only students with valid teaching licensure will be considered for admission. The degree is granted after completion of all courses with a grade of B or better and a ranking of proficient or better on a Capstone Project.

Important information for this program:

• A bachelor's degree from an accredited college is required, prior to beginning the program.
• Admission to the program follows the general admissions policies and procedures for graduate programs outlined in the university catalog and online.
• A Statement of Purpose commenting on your personal educational philosophy and interest in the program and evidence of active involvement with youth and a copy of your Colorado Teaching Certificate are required.
• It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU master-level graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, a Master of Arts in Education (Exceptional Learner/Special Education) graduate will be able to:

1. Create and deliver oral and written communication based on sound educational theory and research in guiding instruction for learners who are exceptional. (Communication Fluency)
2. Evaluate and formulate education plans based on research and legal requirements outlined in federal legislation. (Critical Thinking and Specialized Knowledge)
3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)
4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges from the perspective of an advocate for learners who are exceptional. (Ethical Reasoning)
5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Quantitative Fluency)
6. Work individually and collaboratively on research-based change and innovation in Education. (Specialized Knowledge and Applied Learning)

Institutional Graduate Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Graduate certificates consist of a minimum of 5 credit hours. Master's degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours
• All credits in a graduate program must be minimally at the 500-level.
• At least fifty percent of the credit hours must be taken at CMU.
• Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
• Students may not apply coursework with a grade lower than a "B" toward graduation requirements.
• A course may only be used to fulfill one requirement for each degree/certicate.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See "Requirements for Graduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

Program Specific Requirements

(35 semester hours, must earn a grade of "B" or better in each course.)

• It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

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<td>Theory, Design &amp; Assessment of Curriculum</td>
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<tr>
<td>EDUC 503</td>
<td>Introduction to Educational Research and Design</td>
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<td>EDSE 500</td>
<td>Foundation of Special Education Including Law</td>
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<td>EDSE 501</td>
<td>Instructional Strategies in Special Education</td>
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<td>EDSE 502</td>
<td>Behavioral Interventions for the Learner with Special Needs</td>
<td>3</td>
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<td>EDSE 503</td>
<td>Methods of Teaching Students with Mild Disabilities Reading and Math</td>
<td>3</td>
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<td>EDSE 506</td>
<td>Educating Students with Low Incidence Disabilities in Inclusive Environments</td>
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<td>EDSE 510</td>
<td>The Learner Who is Twice Exceptional, Including Gifted and Talented</td>
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<td>EDSE 515</td>
<td>Internship K-6 Elementary Practicum in Special Education</td>
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<tr>
<td>EDSE 520</td>
<td>Internship 6-12 Secondary Practicum in Special Education</td>
<td>3</td>
</tr>
</tbody>
</table>

Capstone 1

Total Semester Credit Hours 35
Students are required to achieve proficiency on all elements of a Capstone Project completed by the final semester of the program. The Capstone Project evaluates the critical thinking and problem solving skills of candidates in relation to the Colorado Special Education, Generalist standards.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Education: Initial Teacher Licensure - Elementary (MA, Education)

Degree: Master of Arts in Education

Program of Study: Initial Teacher Licensure – Elementary

Program Code: 8213

About This Major . . .

The Master of Arts in Education is designed as a dynamic program to meet the needs of education professionals as they gain additional expertise in one or more state endorsement areas or seek initial licensure. The degree is awarded after successful completion of 48 semester hours. The program is designed to provide the student with eleven hours of core knowledge in theory of curriculum design and assessment, educational technology, culture and pedagogy, and research. The additional coursework concentrates on Initial Teacher Licensure – Elementary concentration.

The program is designed using the cohort model with a group of participants completing all requirements in a two-year cycle. New cohorts may begin each summer. Admission to the program follows the stated guidelines for graduate admission procedures outlined in the university catalog. Additionally, students must provide three letters of reference, proof of working with youth, and a statement of purpose.

Important information about this degree:

- A bachelor’s degree from an accredited college is required, prior to beginning the program.
- A fully completed application including official transcripts is required prior to beginning the program.
- Pre-requisite leveling classes may be required prior to admittance to the program.
- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU master-level graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, a Master of Arts in Education (Initial Teacher Licensure-Elementary) graduate will be able to:
1. Create and deliver oral and written communication based on sound educational theory and research for public education instruction. (Communication Fluency)
2. Evaluate and formulate education plans based on research, current issues, and public education stakeholders. (Critical Thinking and Specialized Knowledge)
3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)
4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges from the perspective of a K-12 educator. (Ethical Reasoning)
5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Quantitative Fluency)
6. Work individually and collaboratively on research-based change and innovation in Education. (Specialized Knowledge and Applied Learning)

Institutional Graduate Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.
- Master's degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a "B" toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See "Requirements for Graduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

Program Specific Requirements

(48 semester hours, must earn a grade of "B" or better in each course.)

- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>EDUC 500</td>
<td>Culture and Pedagogy</td>
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</tr>
<tr>
<td>EDUC 501</td>
<td>Educational Technology</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 502</td>
<td>Theory, Design &amp; Assessment of Curriculum</td>
<td>3</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students
are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Education: Initial Teacher Licensure - Secondary (MA, Education)
Degree: Master of Arts in Education
Program of Study: Initial Teacher Licensure – Secondary
Program Code: 8215

About This Major . . .
The Master of Arts in Education is designed as a dynamic program to meet the needs of education professionals as they gain additional expertise in one or more state endorsement areas or seek initial licensure. The degree is awarded after successful completion of 48 semester hours. The program is designed to provide the student with eleven hours of core knowledge in theory of curriculum design and assessment, educational technology, culture and pedagogy, and research. The additional coursework allows the student to focus on a Post Baccalaureate Licensure Program – Secondary education concentration.

The program is designed using the cohort model with a group of participants completing all requirements in a two-year cycle. New cohorts may begin each year. Admission to the program follows the stated guidelines for graduate admission procedures outlined in the university catalog. Additionally, students must provide three letters of reference, proof of working with youth, and a statement of purpose.

Important information about this program:

- A bachelor’s degree from an accredited college is required, prior to beginning the program.
- A fully completed application including official transcripts is required prior to beginning the program.
- Pre-requisite leveling classes may be required prior to admittance to the program.

- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU master-level graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, a Master of Arts in Education (Initial Teacher Licensure – Secondary) graduate will be able to:

1. Create and deliver oral and written communication based on sound educational theory and research for public education instruction. (Communication Fluency)
2. Evaluate and formulate education plans based on research, current issues, and public education stakeholders. (Critical Thinking and Specialized Knowledge)
3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)
4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges from the perspective of a K-12 educator. (Ethical Reasoning)
5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Quantitative Fluency)
6. Work individually and collaboratively on research-based change and innovation in Education. (Specialized Knowledge and Applied Learning)

Institutional Graduate Degree Requirements
The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours. Master’s degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a "B" toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/ certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Requirements
(48 semester hours, must earn a grade of "B" or better in each course.)
It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>EDUC 500</td>
<td>Culture and Pedagogy</td>
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<tr>
<td>EDUC 501</td>
<td>Educational Technology</td>
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</tr>
<tr>
<td>EDUC 502</td>
<td>Theory, Design &amp; Assessment of Curriculum</td>
<td>3</td>
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<tr>
<td>EDUC 503</td>
<td>Introduction to Educational Research and Design</td>
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<tr>
<td>EDUC 586B</td>
<td>Accommodating Diverse and Exceptional Needs 6-12</td>
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<td>EDUC 591</td>
<td>ITL 1: Foundations of Curriculum, Instruction, and Assessment</td>
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<td>EDUC 592B</td>
<td>ITL Secondary Pre-Internship</td>
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<td>EDUC 580A</td>
<td>Secondary Instructional Methods for English Language Arts</td>
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<td>EDUC 580B</td>
<td>Secondary Instructional Methods for Social Studies</td>
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<td>EDUC 580C</td>
<td>Secondary Instructional Methods for Mathematics</td>
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<td>EDUC 580D</td>
<td>Secondary Instructional Methods for Science</td>
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<td>EDUC 580E</td>
<td>Secondary Instructional Methods for Spanish</td>
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<td>EDUC 580</td>
<td>Secondary Instructional Methods Across the Curriculum</td>
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<tr>
<td>EDUC 599B</td>
<td>ITL 3: Directed Teaching: Secondary Education</td>
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<td>EDUC 570</td>
<td>Classroom Management</td>
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<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
<td><strong>48</strong></td>
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</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

**Education: Initial Teacher Licensure K-12 Physical Education (MAEd)**

Degree: Master of Arts in Education
Program of Study: Initial Teacher Licensure K-12 Physical Education
Program Code: 8237
About This Program . . .

The Master of Arts in Education is designed as a dynamic program to meet the needs of education professionals as they gain additional expertise in one or more state endorsement areas or seek initial licensure. The degree is awarded after successful completion of 35 semester hours. The program is designed to provide the student with eleven hours of core knowledge in theory of curriculum design and assessment, educational technology, culture and pedagogy, and research. The additional coursework allows the student to focus on a Post Baccalaureate Licensure Program – K-12 education concentration.

The program is designed using the cohort model with a group of participants completing all requirements in a two-year cycle. New cohorts may begin each year. Admission to the program follows the stated guidelines for graduate admission procedures outlined in the university catalog. Additionally, students must provide three letters of reference, proof of working with youth, and a statement of purpose.

Important information for this program:

• A bachelor’s degree from an accredited college is required prior to beginning the program.
• A fully completed application including official transcripts is required prior to beginning the program.
• Pre-requisite leveling classes may be required prior to admittance to the program.
• It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU master-level graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, a Masters in Education in Initial Teacher Licensure – K-12 Physical Education graduate will be able to:

1. Create and deliver oral and written communication based on sound educational theory and research for public education instruction. (Communication Fluency)
2. Evaluate and formulate education plans based on research, current issues, and public education stakeholders. (Critical Thinking and Specialized Knowledge)
3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)
4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges from the perspective of a K-12 educator. (Ethical Reasoning)
5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Quantitative Fluency)
6. Work individually and collaboratively on research-based change and innovation in Education. (Specialized Knowledge and Applied Learning)

Institutional Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

Program Specific Degree Requirements

(48 semester hours)

• It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

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<td>Secondary Instructional Methods Across the Curriculum</td>
<td>3</td>
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<tr>
<td>EDUC 580F</td>
<td>Secondary Instructional Methods for Physical Education</td>
<td>3</td>
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<tr>
<td>EDUC 584</td>
<td>Secondary Literacy Methods Across the Curriculum</td>
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<tr>
<td>EDUC 586A</td>
<td>Accommodating Diverse and Exceptional Needs K-6</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 591</td>
<td>ITL 1:Foundations of Curriculum, Instruction, and Assessment</td>
<td>9</td>
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<tr>
<td>EDUC 592C</td>
<td>ITL K12 Physical Education Pre-Internship</td>
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<tr>
<td>EDUC 599C</td>
<td>ITL 3: Directed Teaching, Physical Education</td>
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</table>

Total Semester Credit Hours 48

Course Title Semester Credit Hours

First Year

Summer Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 586A</td>
<td>Accommodating Diverse and Exceptional Needs K-6</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 591</td>
<td>ITL 1:Foundations of Curriculum, Instruction, and Assessment</td>
<td>9</td>
</tr>
</tbody>
</table>

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EDUC 586</td>
<td>Secondary Instructional Methods Across the Curriculum</td>
<td>3</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how met requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Institutional Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.
- Master’s degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
• Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Degree Requirements
(37 semester hours)

• It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.

### Education: Teacher Leader (MA, Education)

Degree: Master of Arts in Education
Program of Study: Teacher Leadership
Program Code: 8214

About This Major . . .

The Master of Arts in Education is designed as a dynamic program to meet the needs of education professionals as they gain additional expertise. The degree is awarded after successful completion of 30 semester hours for the Teacher Leader concentration. The program is designed to provide the student with 11 hours of Master's foundation knowledge in theory of curriculum design and assessment, educational technology, culture and pedagogy, and research. The subsequent courses focus on Teacher Leader skills and competencies.

The program is guided and adheres to the Teacher Leader Model Standards researched and created by the Teacher Leadership Exploratory Consortium. Admission to the program follows the stated guidelines for
graduate admission procedures as outlined in the university catalog. Additionally, students must provide two letters of reference from the profession and a statement of purpose. Only students with valid teaching licensure shall be considered for admission. The degree is granted after completion of all courses with a grade of B or better, and a ranking of proficient or better on all elements of a comprehensive exam.

Important information for this program:

- A bachelor's degree from an accredited college is required, prior to beginning the program.
- A fully completed application including official transcripts is required prior to beginning the program.
- Applicants must hold a valid Professional Colorado Educator License.
- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU master-level graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, a Master of Arts in Education (Teacher Leader) graduate will be able to:

1. Create and deliver oral and written communication based on sound educational theory and research for instructional leadership. (Communication Fluency)
2. Evaluate and formulate education plans based on research, current issues, and public education stakeholders. (Critical Thinking and Specialized Knowledge)
3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)
4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges from the perspective of a teacher leader. (Ethical Reasoning)
5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Quantitative Fluency)
6. Work individually and collaboratively on research-based change and innovation in diverse classrooms, addressing differentiation for public education students. (Specialized Knowledge and Applied Learning)

**Institutional Graduate Degree Requirements**

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.
- Master’s degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a "B" toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.

- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Program Specific Requirements

(30 semester hours, must earn a grade of "B" or better in each course.)

- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 500</td>
<td>Culture and Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 501</td>
<td>Educational Technology</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 502</td>
<td>Theory, Design &amp; Assessment of Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 503</td>
<td>Introduction to Educational Research and Design</td>
<td>3</td>
</tr>
<tr>
<td>ETL 510</td>
<td>Teacher Leadership I</td>
<td>2</td>
</tr>
<tr>
<td>ETL 513</td>
<td>Information Based Educational Practice and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>ETL 518</td>
<td>Diversity and Differentiated Instruction</td>
<td>2</td>
</tr>
<tr>
<td>ELD 504</td>
<td>Best Practices in Differentiated Instruction</td>
<td>3</td>
</tr>
<tr>
<td>ELD 515</td>
<td>Dynamic School Leadership in a Democratic Society: Introduction to School Administration</td>
<td>2</td>
</tr>
<tr>
<td>ELD 542</td>
<td>Instructional Supervision and Management/HR</td>
<td>3</td>
</tr>
<tr>
<td>ELD 540</td>
<td>School Improvement and Accountability</td>
<td>2</td>
</tr>
<tr>
<td>ELD 544</td>
<td>Strategies in School Improvement</td>
<td>2</td>
</tr>
<tr>
<td>ELD 544</td>
<td>Comprehensive Exam</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**

| 30 |

1 Teacher Leader students are required to achieve proficiency on all elements of a comprehensive exam taken the final semester of the program. The written exam evaluates the critical thinking and problem solving skills of candidates in relation to the Colorado Professional Standards for Principals.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
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<td>Theory, Design &amp; Assessment of Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>ELD 515</td>
<td>Dynamic School Leadership in a Democratic Society: Introduction to School Administration</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 503</td>
<td>Introduction to Educational Research and Design</td>
<td>3</td>
</tr>
<tr>
<td>ELD 542</td>
<td>Instructional Supervision and Management/HR</td>
<td>3</td>
</tr>
<tr>
<td>ELD 540</td>
<td>School Improvement and Accountability</td>
<td>2</td>
</tr>
</tbody>
</table>

**First Year Summer Semester**

**First Year Summer Semester**

**Fall Semester**

**Fall Semester**
EDUC 501  Educational Technology  2

Semester Credit Hours  7

Spring Semester
EDTL 510  Teacher Leadership I  2
EDTL 513  Information Based Educational Practice and Statistics  3
EDLD 544  Strategies in School Improvement  2

Semester Credit Hours  7

Second Year
Summer Semester
EDUC 500  Culture and Pedagogy  3
EDLD 504  Best Practices in Curriculum, Assessment, Instruction  3
EDTL 518  Diversity and Differentiated Instruction  2

Semester Credit Hours  8

Total Semester Credit Hours  30

Program Code: 8221

About This Major . . .

The Master of Arts in Education, Rhetoric and Literary Studies program is a dynamic program designed to meet the needs of education professionals who desire to teach lower-division college English courses in high school or higher education but who don’t have the necessary graduate credits to do so. The degree is awarded after successful completion of 32 credit hours in graduate coursework in English and education, and the program is designed to provide students with more advanced knowledge in education research, curriculum, instruction, culture and pedagogy, educational technology, composition and rhetoric, literary theory, linguistics, creative writing, and American and British literature.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Education: Rhetoric and Literary Studies (MAEd)

Award: Master of Arts in Education
Program of Study: Rhetoric and Literary Studies

Important information for this program:

• A bachelor’s degree from an accredited college is required, prior to beginning the program.
• A fully completed application including official transcripts is required prior to beginning the program.
• Acceptance into the Rhetoric and Literary Studies graduate certificate program.
• 32 semester hours and capstone presentation are required for the Master of Arts in Education Degree in Rhetoric and Literary Studies.
• It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU program completers are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, all recipients of a Rhetoric and Literary Studies Graduate Certificate will be able to:

1. Contribute to scholarly advancement in composition/rhetoric, linguistics, creative writing and literary studies by completing projects individually and collaboratively. (Specialized Knowledge/Applied Learning)
2. Generate oral and written communication based on sound theories of composition/rhetoric, linguistics, creative writing and literary studies. (Communication Fluency)
3. Formulate hypotheses related to research problems, issues, and concepts in the fields of composition/rhetoric, linguistics, creative writing and literary studies. (Critical Thinking)
4. Synthesize information from a base of scholarly resources related to composition/rhetoric, linguistics, creative writing and literary studies. (Information Literacy)
5. Evaluate moral, ethical, legal, or professional challenges in the disciplines of composition/rhetoric, linguistics, creative writing and literary studies. (Ethical Reasoning)

In addition, the Master of Arts in Education graduate will be able to:

1. Create and deliver oral and written communication based on sound educational theory and research for public education. (Communication Fluency)
2. Evaluate and formulate education plans based on research, current issues, and public education stakeholders. (Critical Thinking and Specialized Knowledge)
3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)
4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges for instruction. (Ethical Reasoning)
5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Quantitative Fluency)
6. Work individually and collaboratively on research based change and innovation in education. (Specialized Knowledge and Applied Learning)

Institutional Graduate Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.
- Master's degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Requirements

(32 semester hours, must pass all courses with a grade of “B” or better.)

- 32 semester hours and capstone presentation are required for the Master of Arts in Education Degree in Rhetoric and Literary Studies.
- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic advisor.
department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

**Education: Social Science (MAEd)**

*Award: Master of Arts in Education*

*Program of Study: Social Sciences*

*Program Code: 8271*

**About This Major . . .**

The Master of Arts in Education, Social Sciences is a 32 credit hour program. This program is designed for high school teachers who need certification to teach history and political science courses for lower-division college level credit.

Important information for this program:

- A bachelor’s degree from an accredited college is required, prior to beginning the program.
- A fully completed application including official transcripts is required prior to beginning the program.
- Acceptance into the Social Sciences graduate certificate program.
- 32 semester hours and capstone presentation are required for the Master of Arts in Education Degree in Social Sciences.
- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU program completers are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, all recipients of a Social Sciences Graduate Certificate will be able to:

1. Contribute to scholarly advancement in the chosen field by completing projects individually and collaboratively (specialized knowledge/applied learning);
2. Create oral and written arguments or explanations, well-grounded in discipline-specific theories and methods, for specified audiences (communication fluency);
3. Formulate and evaluate hypotheses as related to research problems, issues, concepts, and various perspectives (critical thinking);
4. Synthesize, evaluate, or refine the information base of various scholarly sources (information literacy); and
5. Evaluate moral, ethical, legal, or professional challenges within the discipline (ethical reasoning).

In addition, the Master of Arts in Education graduate will be able to:

1. Create and deliver oral and written communication based on sound educational theory and research for public education. (Communication Fluency)
2. Evaluate and formulate education plans based on research, current issues, and public education stakeholders. (Critical Thinking and Specialized Knowledge)
3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)
4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges for instruction. (Ethical Reasoning)
5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Quantitative Fluency)
6. Work individually and collaboratively on research based change and innovation in education. (Specialized Knowledge and Applied Learning).

**Institutional Graduate Degree Requirements**

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours. Master’s degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Requirements**

(32 semester hours, must pass all courses with a grade of “B” or better)

- 32 semester hours and capstone presentation are required for the Master of Arts in Education Degree in Social Sciences.
It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>HIST 501</td>
<td>Early American History: Foundation - Civil War</td>
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<tr>
<td>HIST 502</td>
<td>Late American History: Civil War - Modern U.S.</td>
<td>3</td>
</tr>
<tr>
<td>HIST 510</td>
<td>Early European History: Ancient - Reformation</td>
<td>3</td>
</tr>
<tr>
<td>HIST 511</td>
<td>Modern European History: Reformation - 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>POLS 501</td>
<td>Theories of Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POLS 505</td>
<td>American Government</td>
<td>3</td>
</tr>
</tbody>
</table>

**Master of Arts in Education Core Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 500</td>
<td>Culture and Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 501</td>
<td>Educational Technology</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 502</td>
<td>Theory, Design &amp; Assessment of Curriculum</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 503</td>
<td>Introduction to Educational Research and Design</td>
<td>3</td>
</tr>
<tr>
<td>EDTL 513</td>
<td>Information Based Educational Practice and Statistics</td>
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</tbody>
</table>

**Capstone**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 32

1. The Master of Arts in Education requires the successful completion of the capstone competency. The capstone culminates in a professional presentation representing enduring understanding illustrating a synthesis of learning. This presentation must represent sufficient rigor to earn final approval from Colorado Mesa University to grant the Master of Arts degree in Education.

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

### Applied Mathematics (Graduate Certificate)

**Award:** Graduate Certificate  
**Program of Study:** Applied Mathematics  
**Program Code:** 7441

### About This Major . . .

This program leads to a Graduate Certificate in Applied Mathematics with an option to complete a Master of Arts degree in Education. This 18-credit hour program is designed to be completed in a two-year cycle, and serves several purposes:
1. The program is intended to provide licensed secondary mathematics teachers the credentials required by the Higher Learning Commission to teach concurrent college or university mathematics courses.
2. The program enables professionals interested in enhancing their knowledge of applied mathematics an opportunity to take individual courses and/or earn a graduate certificate in the subject area.
3. The program provides an opportunity for post-graduates to take courses that serve as a bridge between a baccalaureate degree and a master's degree in mathematics or related field. In this case the transferability of the courses towards a specific master's degree (other than the Master of Arts in Education) is not guaranteed and would depend on the individual masters programs.

Important information about this program

- A bachelor's degree from an accredited college is required, preferably in mathematics, mathematics education, or an area with a significant mathematics requirement.
- It is strongly recommended that applicants have completed 18-24 hours of undergraduate mathematics courses, including at least two semesters of calculus, a course in probability and statistics, and a course that includes writing mathematical proofs. Each applicant should address how their background relates to these recommendations in their letter of intent (see below), and discuss any particular strengths if they do not meet these recommendations.
- A fully completed application including official transcripts is required prior to beginning the program, two letters of recommendation (one page in length) and a letter of intent that provides information about the student's background, interests, and aspirations, and how they relate to the Graduate Certificate in Applied Mathematics.
- For additional information on applicable polices, please refer to the Graduate Policies and Procedures Manual.

All CMU program completers are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, all recipients of an Applied Mathematics Graduate Certificate will be able to:

1. Employ mathematical, computational and/or statistical methods to address topics in applied mathematics (specialized knowledge/applied learning, quantitative fluency);
2. Create oral and written arguments, well-grounded in theories and methods of applied mathematics (communication fluency, quantitative fluency);
3. Formulate and evaluate hypotheses related to applied problems, issues, concepts, and perspectives (critical thinking, quantitative fluency).

### Institutional Graduate Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.
- Master's degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Program Specific Requirements

(18 semester hours, must pass all courses with a grade of "B" or better.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Required Courses</strong></td>
<td></td>
</tr>
<tr>
<td>MATH 500</td>
<td>Introduction to Graduate Studies in Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 510</td>
<td>Applied Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>MATH 520</td>
<td>Applied Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Restricted Elective Courses</strong></td>
<td></td>
</tr>
<tr>
<td>Select 9 credits from the following courses:</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>MATH 530</td>
<td>Applied Mathematical Modeling</td>
<td></td>
</tr>
<tr>
<td>MATH 540</td>
<td>Applied Audio and Image Processing</td>
<td></td>
</tr>
<tr>
<td>MATH 550</td>
<td>Mathematical Logic and Foundations in Mathematics</td>
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</tr>
<tr>
<td>MATH 560</td>
<td>Applied Number Theory</td>
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<td>MATH 570</td>
<td>Applied Cryptography</td>
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<tr>
<td>MATH 596</td>
<td>Topics</td>
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<table>
<thead>
<tr>
<th>Course</th>
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<th>Semester Credit Hours</th>
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<tr>
<td><strong>First Year</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Summer Semester</strong></td>
<td></td>
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<tr>
<td>MATH 500</td>
<td>Introduction to Graduate Studies in Applied Mathematics</td>
<td>3</td>
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<tr>
<td></td>
<td>Semester Credit Hours</td>
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<tr>
<td><strong>Fall Semester</strong></td>
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<td></td>
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<tr>
<td>MATH 510</td>
<td>Applied Probability and Statistics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>MATH 520</td>
<td>Applied Numerical Methods</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>3</td>
</tr>
<tr>
<td><strong>Second Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Summer Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>Restricted Elective</td>
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<td>3</td>
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<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>3</td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>Restricted Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>3</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.

Education: Educational Leadership (EDLD) (Graduate Certificate)

Award: Graduate Certificate in Education
Program of Study: Educational Leadership (EDLD)
Program Code: 7202

About This Major . . .

The Graduate Certificate in Educational Leadership for Principal Licensure is awarded after successful completion of 26 semester hours focusing on Educational Leadership skills and competencies that adhere to the Colorado Professional Standards for Principals. This certificate program prepares candidates, who already hold a Master's Degree, to take the PLACE exam and apply for a Colorado Principal License. Students must hold a valid teaching license to be considered for the certificate program. The certificate is granted after completion of all courses with a grade of B or better and a ranking of proficient or better on all elements of a comprehensive exam.

Admission to the program follows the stated guidelines for graduate admission procedures outlined in the university catalog. Additionally, students must provide three letters of reference and a statement of purpose.

Important information for this program:

- A master's degree from an accredited college is required, prior to beginning the program.
- A fully completed application including official transcripts is required prior to beginning the program.
- Applicants must hold a valid Professional Colorado Educator License.
- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, a Graduate Certificate Educational Leadership recipient will be able to:

1. Create and deliver oral and written communication based on sound educational theory and research for public education leadership. (Communication Fluency)
2. Evaluate and formulate education plans based on research, current issues, and public education stakeholders. (Critical Thinking and Specialized Knowledge)
3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)
4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges from the perspective of an educational leader. (Ethical Reasoning)
5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Quantitative Fluency)
6. Work individually and collaboratively on research-based change and innovation in Education. (Specialized Knowledge and Applied Learning)

Institutional Graduate Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.
- Master's degrees consist of a minimum of 30 credit hours.
- Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a "B" toward graduation requirements.
• A course may only be used to fulfill one requirement for each degree/ certificate.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Requirements
(26 semester hours, must earn a grade of “B” or better in each course)

• It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>EDLD 504</td>
<td>Best Practices in Curriculum, Assessment, Instruction</td>
<td>3</td>
</tr>
<tr>
<td>EDLD 505</td>
<td>Reform and Organizational Change in Education</td>
<td>2</td>
</tr>
<tr>
<td>EDTL 513</td>
<td>Information Based Educational Practice and Statistics</td>
<td>3</td>
</tr>
<tr>
<td>EDLD 515</td>
<td>Dynamic School Leadership in a Democratic Society: Introduction to School Administration</td>
<td>2</td>
</tr>
<tr>
<td>EDLD 520A</td>
<td>Principalship I</td>
<td>2</td>
</tr>
<tr>
<td>EDLD 520B</td>
<td>Principalship II</td>
<td>2</td>
</tr>
<tr>
<td>EDLD 530</td>
<td>Legal Aspects of School Administration: Educational Policy and the Law</td>
<td>2</td>
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<tr>
<td>EDLD 531</td>
<td>School Finance and Budgeting</td>
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<tr>
<td>EDLD 535</td>
<td>Internship in Educational Leadership I</td>
<td>1</td>
</tr>
<tr>
<td>EDLD 540</td>
<td>School Improvement and Accountability</td>
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</tr>
<tr>
<td>EDLD 542</td>
<td>Instructional Supervision and Management/HR</td>
<td>3</td>
</tr>
<tr>
<td>EDLD 544</td>
<td>Strategies in School Improvement</td>
<td>2</td>
</tr>
<tr>
<td>EDLD 545</td>
<td>Internship in Educational Leadership II</td>
<td>1</td>
</tr>
<tr>
<td>Comprehensive Exam ¹</td>
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</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>26</td>
<td></td>
</tr>
</tbody>
</table>

¹ Educational Leadership students are required to achieve proficiency on all elements of a comprehensive exam taken the final semester of the program. The written exam evaluates the critical thinking and problem solving skills of candidates in relation to the Colorado Professional Standards for Principals.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.
## Education: English for Speakers of Other Languages (ESOL) (Graduate Certificate)

**Award:** Graduate Certificate in Education  
**Program of Study:** English for Speakers of Other Languages (ESOL)  
**Program Code:** 7201

### About This Major . . .

The Graduate Certificate in Education, ESOL is designed as a dynamic program to meet the needs of education professionals working with English Language Learners. The certificate is awarded after successful completion of 24 semester hours.

Admission to the program follows the stated guidelines for graduate admission procedures outlined in the university catalog. Additionally, students must provide three letters of reference and a statement of purpose. Candidates not meeting the stated requirements may be admitted under conditional status.

The Graduate Certificate in Education, ESOL is awarded after successful completion of 24 semester hours focusing on working with culturally and linguistically diverse students in a K-12 setting. This certificate program prepares candidates to apply for a Colorado Department of Education endorsement.

Students must hold a valid teaching license to be considered for the certificate program. The certificate is granted after completion of all courses with a grade of B or better and a ranking of proficient or better on all elements of a comprehensive exam.

Important information about this program:

- A fully completed application including official transcripts is required prior to beginning the program.
- Applicants must hold a valid Professional Colorado Educator License.
- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU graduate completers are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, a Graduate Certificate in English for Speakers of Other Languages recipient will be able to:

1. Create and deliver oral and written communication based on sound educational theory and research for public education of diverse English Language Learners. (Communication Fluency)
2. Evaluate and formulate education plans based on research, current issues, and public education stakeholders. (Critical Thinking and Specialized Knowledge)
3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)
4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges for instruction of English Language Learners. (Ethical Reasoning)
5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Quantitative Fluency)

6. Work individually and collaboratively on research-based change and innovation in Education. (Specialized Knowledge and Applied Learning)

### Institutional Graduate Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.  
- Master's degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a "B" toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Program Specific Requirements

(24 semester hours, must earn a “B” or better in each course)

- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

#### Code  
**Title**  
**Semester Credit Hours**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>EDUC 504</td>
<td>Methods of Teaching English as a Second Language</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 510</td>
<td>ESL Strategies/Content Areas</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 535</td>
<td>Internship in ESOL: K-6</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 543</td>
<td>Language Systems and Linguistic Diversity</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 545</td>
<td>Internship in ESOL: 7-12</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 554</td>
<td>Theories of Second Language Acquisition</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 555</td>
<td>Multicultural Narratives/K-12</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 556</td>
<td>Assessment in English as a Second Language</td>
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**Total Semester Credit Hours**  
24

#### Course  
**Title**  
**Semester Credit Hours**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 504</td>
<td>Methods of Teaching English as a Second Language</td>
<td>3</td>
</tr>
</tbody>
</table>

First Year  
**Summer Semester**

**EDUC 504**  
Methods of Teaching English as a Second Language  
3
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Education: Exceptional Learner/Special Education (EDSE) (Graduate Certificate)

Award: Graduate Certificate in Education
Program of Study: Exceptional Learner/Special Education (EDSE)
Program Code: 7203

About This Major . . .

This graduate certificate is designed for education professionals to earn an endorsement to work with K-12 students with exceptionalities in accordance with the Council for Exceptional Children (CEC) standards.

Admission to the program follows the stated guidelines for graduate admission procedures outlined in the university catalog. Additionally, students must provide three letters of reference and a statement of purpose.

This certificate program prepares candidates, who must already hold a Master’s Degree, to take the PRAXIS exam and apply for a Colorado Department of Education Special Education Generalist Licensure.

Students must hold a valid teaching license to be considered for the certificate program. The certificate is granted after completion of all courses with a grade of B or better and a ranking of proficient or better on all elements of a Capstone Project.

Important information about this program:

- Applicants must hold a valid Professional Colorado Educator License.
- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU program completers are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, all recipients of an Exceptional Learner/Special Education Graduate Certificate will be able to:

1. Create and deliver oral and written communication based on sound educational theory and research in guiding instruction for learners who are exceptional. (Communication Fluency)
2. Evaluate and formulate education plans based on research and legal requirements outlined in federal legislation. (Critical Thinking and Specialized Knowledge)
3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)
4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges from the perspective of an advocate for learners who are exceptional. (Ethical Reasoning)
5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Qualitative Fluency)
6. Work individually and collaboratively on research-based change and innovation in Education. (Specialized Knowledge and Applied Learning)
### Institutional Graduate Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours. Master's degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a "B" toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Program Specific Requirements

(24 semester hours, must earn a grade of "B" or better in each course.)

- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDSE 500</td>
<td>Foundation of Special Education Including Law</td>
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</tr>
<tr>
<td>EDSE 501</td>
<td>Instructional Strategies in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDSE 502</td>
<td>Behavioral Interventions for the Learner with Special Needs</td>
<td>3</td>
</tr>
<tr>
<td>EDSE 503</td>
<td>Methods of Teaching Students with Mild Disabilities Reading and Math</td>
<td>3</td>
</tr>
<tr>
<td>EDSE 506</td>
<td>Educating Students with Low Incidence Disabilities in Inclusive Environments</td>
<td>3</td>
</tr>
<tr>
<td>EDSE 510</td>
<td>The Learner Who is Twice Exceptional, Including Gifted and Talented</td>
<td>3</td>
</tr>
<tr>
<td>EDSE 515</td>
<td>Internship K-6 Elementary Practicum in Special Education</td>
<td>3</td>
</tr>
<tr>
<td>EDSE 520</td>
<td>Internship 6-12 Secondary Practicum in Special Education</td>
<td>3</td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

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1. The Graduate Certificate, EDSE requires the successful completion of a Capstone Project. The Capstone Project demonstrates a synthesis of learning.
Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

**Education: Initial Teacher Licensure - Elementary (Graduate Certificate)**

**Award:** Graduate Certificate in Education  
**Program of Study:** Initial Teacher Licensure - Elementary  
**Program Code:** 7205

**About This Major . . .**

The Graduate Certificate in Education, ITL - Elementary is designed as a dynamic program to meet the needs of education professionals as they seek initial state licensure. The degree is awarded after successful completion of 37 semester hours.

The program is designed using the cohort model with a group of participants completing all requirements in a one-year cycle. New cohorts may begin each year.

Admission to the program follows the stated guidelines for graduate admission procedures outlined in the university catalog. Additionally, students must provide three letters of reference, proof of working with youth, and a statement of purpose.

All CMU Graduate Certificate in Initial Teacher Licensure-Elementary recipients will be able to:

1. Facilitate student learning and address individual learning and developmental patterns.  
   (Specialized Knowledge)
2. Design a safe and supportive learning environment for elementary education students.  
   (Applied Learning)
3. Apply content knowledge while working with learners to access information in real world settings ensuring learner mastery of the content.  
   (Specialized Knowledge)
4. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication.  
   (Critical Thinking/Communication Fluency)
5. Engage in meaningful and intensive professional learning and self-renewal by regularly examining practice through ongoing study, self-reflection, and collaboration.  
   (Applied Learning)

**Institutional Graduate Degree Requirements**

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Requirements**  
(37 semester hours, must earn a grade of “B” or better in each course.)

- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>EDUC 585</td>
<td>Elementary Integrated Science, Social Studies, and Art Theory and Methodology K-6</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 587</td>
<td>Elementary Reading and Language Arts Theory and Methodology K-6</td>
<td>3</td>
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<td>Elementary Mathematics Theory and Methodology K-6</td>
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<td>EDUC 592A</td>
<td>ITL Elementary Pre-Internship</td>
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<tr>
<td>EDUC 586A</td>
<td>Accommodating Diverse and Exceptional Needs K-6</td>
<td>3</td>
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<tr>
<td>EDUC 591</td>
<td>ITL 1: Foundations of Curriculum, Instruction, and Assessment</td>
<td>9</td>
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<tr>
<td>EDUC 599A</td>
<td>ITL 3: Directed Teaching: Elementary Education</td>
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</table>

**Total Semester Credit Hours** 37

<table>
<thead>
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<th>Course</th>
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**First Year**

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<td>ITL 1: Foundations of Curriculum, Instruction, and Assessment</td>
<td>9</td>
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**Summer Semester**

**Fall Semester**

<table>
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<td>Elementary Integrated Science, Social Studies, and Art Theory and Methodology K-6</td>
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</tr>
<tr>
<td>EDUC 592A</td>
<td>ITL Elementary Pre-Internship</td>
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**Spring Semester**

<table>
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<tr>
<th>Course</th>
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<tr>
<td>EDUC 599A</td>
<td>ITL 3: Directed Teaching: Elementary Education</td>
<td>12</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours** 37
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Education: Initial Teacher Licensure - Secondary (Graduate Certificate)

Award: Graduate Certificate in Education
Program of Study: Initial Teacher Licensure - Secondary
Program Code: 7206, 7207, 7208, 7209, 7210

About This Major . . .

The Graduate Certificate in Education, ITL - Secondary degree is designed as a dynamic program to meet the needs of education professionals as they seek initial state licensure. The degree is awarded after successful completion of 37 semester hours.

The program is designed using the cohort model with a group of participants completing all requirements in a one-year cycle. New cohorts may begin each year.

Admission to the program follows the stated guidelines for graduate admission procedures outlined in the university catalog. Additionally, students must provide three letters of reference, proof of working with youth, and a statement of purpose.

All CMU Graduate Certificate in Initial Teacher Licensure-Secondary recipients will be able to:

1. Facilitate student learning and address individual learning and developmental patterns in the licensure content area. (Specialized Knowledge)
2. Design a safe and supportive learning environment for secondary education students. (Applied Learning)
3. Apply licensure content knowledge while working with learners to access information in real world settings assuring learner mastery of the content. (Specialized Knowledge)
4. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication. (Critical Thinking/Communication Fluency)
5. Engage in meaningful and intensive professional learning and self-renewal by regularly examining practice through ongoing study, self-reflection, and collaboration. (Applied Learning)

Institutional Graduate Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.
- Master’s degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Requirements

(37 semester hours, must earn a grade of “B” or better in each course.)

- It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

<table>
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<tr>
<th>Code</th>
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<tr>
<td>EDUC 586B</td>
<td>Accommodating Diverse and Exceptional Needs</td>
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</tr>
<tr>
<td>6-12</td>
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</table>
EDUC 591  ITL 1: Foundations of Curriculum, Instruction, and Assessment  9
EDUC 592B  ITL Secondary Pre-Internship  4
Complete one of the following, based on content area concentration:  2
EDUC 580A  Secondary Instructional Methods for English Language Arts  
EDUC 580B  Secondary Instructional Methods for Social Studies  
EDUC 580C  Secondary Instructional Methods for Mathematics  
EDUC 580D  Secondary Instructional Methods for Science  
EDUC 580E  Secondary Instructional Methods for Spanish  
EDUC 584  Secondary Literacy Methods Across the Curriculum  3
EDUC 580  Secondary Instructional Methods Across the Curriculum  3
EDUC 599B  ITL 3: Directed Teaching: Secondary Education  12
EDUC 570  Classroom Management  1
Total Semester Credit Hours  37

<table>
<thead>
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</thead>
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<tr>
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<tr>
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<td></td>
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<td>Accommodating Diverse and Exceptional Needs 6-12</td>
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<td>ITL 1: Foundations of Curriculum, Instruction, and Assessment</td>
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<tr>
<td>Fall Semester</td>
<td></td>
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<td>EDUC 592B</td>
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<td>EDUC 580</td>
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<td>3</td>
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<tr>
<td>EDUC 570</td>
<td>Classroom Management</td>
<td>1</td>
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<tr>
<td>Spring Semester</td>
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<td></td>
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<tr>
<td>EDUC 599B</td>
<td>ITL 3: Directed Teaching: Secondary Education</td>
<td>12</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>37</td>
</tr>
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</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

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**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

**Rhetoric and Literary Studies (Graduate Certificate)**

Award: Graduate Certificate
Program of Study: Rhetoric and Literary Studies
Program Code: 7221

**About This Major . . .**

The Colorado Mesa University Graduate Certificate in Rhetoric and Literary Studies is a dynamic program designed to meet the needs of education professionals who desire to teach lower-division college English courses in high school or higher education but who don’t have the necessary graduate credits to do so. The certificate is awarded after successful completion of 18 credit hours in graduate coursework in English, and the program is designed to provide students with more advanced knowledge in composition and rhetoric, literary theory, linguistics, creative writing, and American and British literature.

Important information for this program:

- A Bachelor’s degree from an accredited college is required, prior to beginning the program.
- A fully completed Application for Admission to Graduate Programs including official transcripts is required prior to beginning the program.
- Applicants must also submit to the English Department a Letter of Intent of no fewer than 1000 words that provides information about the students’ background, interests, and inspirations, including how they relate to the Graduate Certificate in Rhetoric and Literary Studies.
- For additional information on applicable polices, please refer to the Graduate Policies and Procedures Manual.

All CMU program completers are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and
specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, all recipients of a Rhetoric and Literary Studies Graduate Certificate will be able to:

1. Contribute to scholarly advancement in composition/rhetoric, linguistics, creative writing and literary studies by completing projects individually and collaboratively. (Specialized Knowledge/Applied Learning)
2. Generate oral and written communication based on sound theories of composition/rhetoric, linguistics, creative writing and literary studies. (Communication Fluency)
3. Formulate hypotheses related to research problems, issues, and concepts in the fields of composition/rhetoric, linguistics, creative writing and literary studies. (Critical Thinking)
4. Synthesize information from a base of scholarly resources related to composition/rhetoric, linguistics, creative writing and literary studies. (Information Literacy)
5. Evaluate moral, ethical, legal, or professional challenges in the disciplines of composition/rhetoric, linguistics, creative writing and literary studies. (Ethical Reasoning)

Institutional Graduate Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours. Master’s degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a "B" toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Requirements

(18 semester hours, must pass all courses with a grade of "B" or better.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 521</td>
<td>Seminar in Literary Theory</td>
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</tr>
<tr>
<td>ENGL 543</td>
<td>Language Systems and Linguistic Diversity</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 550</td>
<td>Studies in Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 554</td>
<td>Topics in British and Commonwealth Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

Enrollment Guidelines

- Students must meet with an advisor to review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- At least fifty percent of the credit hours must be taken at CMU.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.

Social Science (Graduate Certificate)
Award: Graduate Certificate
Program of Study: Social Sciences
Program Code: 7771

About This Major . . .
This graduate certificate is designed for high school teachers who need certification to teach history and political science courses for lower-division college level credit.

All CMU program completers are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, all recipients of a Social Sciences Graduate Certificate will be able to:

1. Contribute to scholarly advancement in the chosen field by completing projects individually and collaboratively (specialized knowledge/applied learning);
2. Create oral and written arguments or explanations, well-grounded in discipline-specific theories and methods, for specified audiences (communication fluency);
3. Formulate and evaluate hypotheses as related to research problems, issues, concepts, and various perspectives (critical thinking);
4. Synthesize, evaluate, or refine the information base of various scholarly sources (information literacy); and
5. Evaluate moral, ethical, legal, or professional challenges within the discipline (ethical reasoning).

Institutional Graduate Degree Requirements
The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Graduate certificates consist of a minimum of 5 credit hours. Master's degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
• All credits in a graduate program must be minimally at the 500-level.
• At least fifty percent of the credit hours must be taken at CMU.
• Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
• Students may not apply coursework with a grade lower than a "B" toward graduation requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Requirements
(18 semester hours, must pass all courses with a grade of "B" or better.)

• For additional information on applicable polices, please refer to the Graduate Policies and Procedures Manual.

<table>
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<tr>
<td>HIST 502</td>
<td>Late American History: Civil War - Modern U.S.</td>
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</tr>
<tr>
<td>HIST 510</td>
<td>Early European History: Ancient - Reformation</td>
<td>3</td>
</tr>
<tr>
<td>HIST 511</td>
<td>Modern European History: Reformation - 20th Century</td>
<td>3</td>
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<tr>
<td>POLS 501</td>
<td>Theories of Political Science</td>
<td>3</td>
</tr>
<tr>
<td>POLS 505</td>
<td>American Government</td>
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</table>

Total Semester Credit Hours 18

Course Title Semester Credit Hours

First Year
Summer Semester
HIST 501 Early American History: Foundation - Civil War 3
Semester Credit Hours 3

Fall Semester
HIST 502 Late American History: Civil War - Modern U.S. 3
Semester Credit Hours 3

Spring Semester
HIST 510 Early European History: Ancient - Reformation 3
Semester Credit Hours 3

Second Year
Summer Semester
HIST 511 Modern European History: Reformation - 20th Century 3
Semester Credit Hours 3

Fall Semester
POLS 501 Theories of Political Science 3
Semester Credit Hours 3

Spring Semester
POLS 505 American Government 3
Semester Credit Hours 3

Total Semester Credit Hours 18

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the
student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Education: Teacher Leader (EDTL) (Graduate Certificate)
Award: Graduate Certificate in Education
Program of Study: Teacher Leadership (EDTL)
Program Code: 7204

About This Major . . .
This certificate addresses the need for curriculum and instructional leaders who can support and assist building and district administrators. Candidates in the program are seeking instructional leadership roles while remaining classroom teachers. The Graduate Certificate in Education, Teacher Leadership is awarded after successful completion of eight semester hours.

Admission to the program follows the stated guidelines for graduate admission procedures outlined in the university catalog. Additionally, students must provide three letters of reference and a statement of purpose.

Students must hold a valid teaching license to be considered for the graduate certificate program. The certificate is granted after completion of all courses with a grade of B or better and a ranking of proficient or better on all elements of a comprehensive exam.

Important information about this program:

• A fully completed application including official transcripts is required prior to beginning the program.

• Applicants must hold a valid Professional Colorado Educator License.
• It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.

All CMU Graduate Certificate in Teacher Leadership recipients will be able to:

1. Create and deliver oral and written communication based on sound educational theory and research for instructional leadership.
   (Communication Fluency)
2. Evaluate and formulate education plans based on research, current issues, and public education stakeholders. (Critical Thinking and Specialized Knowledge)
3. Synthesize, evaluate, and refine information from an information base of scholarly resources. (Information Literacy)
4. Evaluate and articulate responses to moral, ethical, legal, and professional challenges from the perspective of a teacher leader. (Ethical Reasoning)
5. Employ statistically valid processes to analyze assessment data to evaluate student learning with respect to district, state, and federal goals. (Quantitative Fluency)
6. Work individually and collaboratively on research-based change and innovation in diverse classrooms, addressing differentiation for public education students. (Specialized Knowledge)

Institutional Graduate Degree Requirements
The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Graduate certificates consist of a minimum of 5 credit hours. Master’s degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
• All credits in a graduate program must be minimally at the 500-level.
• At least fifty percent of the credit hours must be taken at CMU.
• Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
• Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Requirements
(8 semester hours, must earn a grade of “B” or better in each course.)

• It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.
If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.
ELECTRICAL/COMPUTER ENGINEERING

At the time of publication for the 2018-2019 Colorado Mesa University Catalog, CMU and CU-Boulder were working to develop a third partnership program: Bachelor of Science in Electrical/Computer Engineering (BS ECE). Should the partnership be finalized, more information will be available on the CMU/CU-Boulder Engineering Partnership Programs page (https://www.coloradomesa.edu/engineering/partnership-program).

Contact Information
Confluence Hall
1410 North 7th Street
Grand Junction, CO, 81501
970.248.1400
ELECTRIC LINEWORKER

Program Description
This program covers all areas of training required to work with electric lines, including: basic skills and studies of electricity, math, fundamentals of line work, transformer connections and underground installation. In addition to training at the field location, all students are encouraged to obtain Red Cross First Aid and CPR cards as a requirement for employment. With this certificate, students will be prepared for entry-level positions as electric line mechanics, electric lineworkers or power lineworkers.

Special Requirements
Climbing and working on poles and towers is required. Students receive field training and practical theory in all phases of powerline installation and maintenance. An outdoor laboratory covers climbing, setting and removing various sizes of poles, guy work, conductors, transformers, street lights, installation of services and the use and care of safety equipment. Prospective students are encouraged to contact the College about physical requirements. This program begins only in the fall semester of each year.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
- Electric Lineworker (AAS) (p. 373)

Certificates
- Electric Lineworker (Technical Certificate) (p. 375)

Electric Lineworker (AAS)
Degree: Associate of Applied Science
Major: Electric Line Worker
Program Code: 1391

About This Major . . .
This program covers all areas of training required to work with electric lines, including: basic skills in studies of electricity, math, fundamentals of line work, transformer connections, and underground installation. In addition to training at the field location, all students are encouraged to obtain a Red Cross First Aid and a CPR card as a requirement for employment. With this certificate, students will be prepared for entry-level positions as electric line mechanics, electric lineworkers or power lineworkers.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a ground man or lineman in the electrical distribution industry. (Communication Fluency)
2. Apply mathematical concepts to perform electrical formula calculations used for finding voltages, amperes, resistance, and power. (Quantitative Fluency)
3. Evaluate a situation, and determine which Standard Operating Procedure (SOP) applies to perform the job in a safe and timely manner. (Applied Learning)
4. Describe the scope and application of principle features of an electric line worker, including core practices required by the electrical distribution industry. (Critical Thinking)
5. Demonstrate familiarity with Standard Operating Procedures regarding climbing structures, replacing associated equipment, pole setting procedures, and soil recognition for underground applications. Perform all required safety procedures. (Specialized Knowledge)
6. Evaluate company policies, ethical standards and perform in a manner that is consistent to Federal and State laws. (Specialized Knowledge)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.

Specific to this degree:
- 65 semester hours total for the AAS, Electric Line Worker.
- A minimum of 16 semester hours taken at CMU in no fewer than two semesters.

Essential Learning Requirements
(15 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
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<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
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<td>Interpersonal Communications</td>
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<tr>
<td>SPCH 102</td>
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**Mathematics**

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<tbody>
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<td>MATH 107</td>
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**Other Essential Learning Core Courses**

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

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**Total Semester Credit Hours**

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**Wellness Requirement**

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**Restricted Electives**

Choose 12 semester hours from the list below.

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<td>GEOG 131</td>
<td>Introduction to Cartography</td>
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<td>BUBG 101</td>
<td>Introduction to Business</td>
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<td>BUBG 211</td>
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<td>MANG 121</td>
<td>Human Relations In Business</td>
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<tr>
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**First Year**

**Fall Semester**

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**Second Year**

**Fall Semester**

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<tbody>
<tr>
<td>ENGL 111</td>
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<tr>
<td>Social Sciences, Natural Science, Fine Arts or Humanities</td>
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</tr>
<tr>
<td>ELCE 124</td>
<td>Electrical Safety</td>
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**Spring Semester**

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**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated
requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Electric Lineworker (Technical Certificate)

Degree: Technical Certificate
Program of Study: Electric Lineworker
Program Code: 1381

About This Major . . .

This program covers all areas of training required to work with electric lines, including: basic skills in studies of electricity, math, fundamentals of line work, transformer connections, and underground installation. In addition to training at the field location, all students are encouraged to obtain a Red Cross First Aid and a CPR card as a requirement for employment. With this certificate, students will be prepared for entry-level positions as electric line mechanics, electric line workers, or power line workers.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a Ground man or an Apprentice Lineman for the electrical industry. (Communication Fluency)
2. Apply mathematical concepts to perform electrical formula calculations used for finding voltages, amperes, resistance, and power. (Quantitative Fluency)
3. Evaluate the situation, and determine which Standard Operating Procedure (SOP) to apply material to perform the job in a safe and timely manner. (Applied Learning)
4. Describe the scope and application of principle features of an electric line worker, including core practices required by electrical industry. (Critical Thinking)
5. Demonstrate familiarity with Standard Operating Procedures regarding climbing structures, replacing associated equipment, pole setting procedures, and soil recognition for underground applications. Perform all required safety procedures. (Specialized Knowledge)
6. Evaluate company policies, and perform in a manner that is consistent to Federal and State laws. (Specialized Knowledge)
7. Perform as a member of a crew in an ethical manner consistent with public, and company policy. (Applied Learning)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than "C" will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(38 semester hours, must maintain a 2.00 cumulative GPA or higher.)

- Students will be encouraged to have current First Aid and CPR certification before they successfully complete the requirements of this program. This may be achieved by any of the following: (1) holding current cards; (2) obtaining American Red Cross “Standard”
or “Advanced” rating and American Heart Association or equivalent certification, or (3) successfully completing KINE 265 offered by Colorado Mesa University.

- Additional expenses - Students will be required to purchase or have approximately $1000.00 in tools and personal equipment. This does not include required textbooks or an adequate pair of work boots. These costs may vary with student needs and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 107</td>
<td>Career Math</td>
<td>3</td>
</tr>
<tr>
<td>ELCL 120</td>
<td>Fundamentals of Electricity</td>
<td>4</td>
</tr>
<tr>
<td>ELCL 125</td>
<td>Job Training and Safety</td>
<td>2</td>
</tr>
<tr>
<td>ELCL 131</td>
<td>Electrical Distribution Theory I</td>
<td>4</td>
</tr>
<tr>
<td>ELCL 131L</td>
<td>Electric Distribution Lab</td>
<td>4</td>
</tr>
<tr>
<td>ELCL 132</td>
<td>Electrical Distribution Theory II</td>
<td>4</td>
</tr>
<tr>
<td>ELCL 132L</td>
<td>Electrical Distribution Theory II Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ELCL 137</td>
<td>Advanced Electrical Distribution</td>
<td>2</td>
</tr>
<tr>
<td>ELCL 137L</td>
<td>Advanced Electrical Distribution Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>ELCL 140</td>
<td>Underground Procedures</td>
<td>4</td>
</tr>
<tr>
<td>ELCL 140L</td>
<td>Underground Procedures Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>ELCL 145</td>
<td>Hot Line Procedures</td>
<td>1</td>
</tr>
<tr>
<td>ELCL 145L</td>
<td>Hot Line Procedures Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 38

Course Title Semester Credit Hours

First Year
Fall Semester
MATH 107 Career Math 3
ELCL 120 Fundamentals of Electricity 4
ELCL 125 Job Training and Safety 2
ELCL 131 Electrical Distribution Theory I 4
ELCL 131L Electric Distribution Lab 4
Standard First Aid/CPR 4

Semester Credit Hours 17

Spring Semester
ELCL 132 Electrical Distribution Theory II 4
ELCL 132L Electrical Distribution Theory II Laboratory 2
ELCL 137 Advanced Electrical Distribution 2
ELCL 137L Advanced Electrical Distribution Laboratory 4
ELCL 140 Underground Procedures 4
ELCL 140L Underground Procedures Laboratory 2
ELCL 145 Hot Line Procedures 1
ELCL 145L Hot Line Procedures Laboratory 2

Semester Credit Hours 21

Total Semester Credit Hours 38

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
EMERGENCY MANAGEMENT AND DISASTER PLANNING

Program Description
An Emergency Management and Disaster Planning certificate is an addition for students from a variety of majors interested in engaging in emergency and disaster related services in the public, non-profit and private sectors. The certificate provides the knowledge and skills necessary for students to engage in activities related to responding to, recovering from, preparing for and mitigating against disasters. The certificate also prepares students for completing the national certification program in emergency management.

Contact Information
Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Certificates
- Emergency Management and Disaster Planning (Professional Certificate) (p. 377)

Emergency Management and Disaster Planning (Professional Certificate)
Award: Professional Certificate
Program of Study: Emergency Management and Disaster Planning
Program Code: 1771

About This Major . . .
The certificate in emergency management and disaster planning is designed to provide students with the knowledge and skills needed to engage in emergency management and disaster preparedness activities in public, private, and nonprofit organizations. It also prepares students for successfully completing the exam and essay requirements for the International Association of Emergency Managers’ certified emergency manager certification process. Completion of the certificate in emergency management and disaster planning will also contribute to the training requirements for the International Association of Emergency Managers’ certified emergency manager certification process.

Upon completion of the program, the student will be able to:
1. Synthesize current theories, principles, and practices in emergency management. (Specialized Knowledge)
2. Communicate emergency management perspectives to various audiences. (Communication Fluency)
3. Apply problem-solving skills to issues in emergency management. (Critical Thinking)
4. Combine emergency management theory with practitioner experience and skills. (Applied Learning)

Institutional Certificate Requirements
The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Primarily 300-400 level courses.
- At least fifty percent of the credit hours must be taken at CMU.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(9 semester hours, must earn a grade of "C" or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMDP 211</td>
<td>Introduction to Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td>EMDP 321</td>
<td>Hazard Preparedness and Mitigation</td>
<td>3</td>
</tr>
<tr>
<td>EMDP 331</td>
<td>Disaster Response and Recovery</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Consult with Social and Behavioral Sciences Department advisor regarding prerequisite classes that might be necessary to take.

First Year
Fall Semester
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMDP 211</td>
<td>Introduction to Emergency Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>3</td>
</tr>
</tbody>
</table>

Spring Semester
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMDP 321</td>
<td>Hazard Preparedness and Mitigation</td>
<td>3</td>
</tr>
<tr>
<td>EMDP 331</td>
<td>Disaster Response and Recovery</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>9</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the
student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
EMERGENCY MEDICAL SERVICES

Program Description
The Emergency Medical Technician (EMT) — Basic represents the first component of the emergency medical technician system. An EMT — Basic is trained to care for patients in their home or at the scene of an accident and while transporting patients by ambulance to the hospital under medical direction. The EMT — Basic has the emergency skills to assess a patient's condition and manage respiratory, cardiac, and trauma emergencies. EMT coursework typically emphasizes emergency skills, such as patient assessment, managing respiratory, trauma, and cardiac emergencies. Formal courses are combined with skills practice and time in an emergency room and on an ambulance for a total of 195 contact hours. The program also provides instruction and practice in dealing with bleeding, fractures, airway obstruction, cardiac arrest, and emergency childbirth. Students learn how to use and maintain common emergency equipment, such as backboards, suction devices, splints, oxygen delivery systems, and stretchers. The program prepares the graduate to take the NREMT examination and become certified as an EMT. Career options include opportunities in hospital emergency rooms, fire departments, doctor offices, private ambulance services, and search and rescue.

The EMT-Paramedic represents the most advanced level of training of the emergency medical technician system. At this level, the caregiver receives advanced training in the use of procedures, medications and equipment to manage medical emergencies and traumatic injuries in patients of all ages. EMT-Paramedics (EMT-4) provide the most extensive pre-hospital care. Through performance of assessments and providing medical care, their goal is to prevent and reduce mortality and morbidity due to illness and injury. Paramedics primarily provide care to emergency patients in an out-of-hospital setting. The program prepares the graduate to take the NREMT examination and become certified as an EMT-Paramedic. Extensive related coursework and clinical and field experience is required. Students admitted to the program must have and maintain EMT-Basic certification throughout the EMT-Paramedic program. Admission to the Paramedic program is competitive. Admission into Colorado Mesa University does not guarantee acceptance into the Paramedic program, which requires a separate application process. Paramedics should be emotionally stable, have good dexterity, agility, and physical coordination, and be able to lift and carry heavy loads. EMT-Paramedics are employed by fire, police and rescue agencies, hospitals, private ambulance companies, flight for life, and in a variety of businesses and industries with a high potential for accidental injury or illness. Graduates from this course, whether the certificate program or the AAS degree program will graduate as street-ready paramedics.

Special Requirements
Students must earn a “C” or higher for all courses required for completion of the EMS programs. This policy applies regardless of when the course was taken.

Students must possess a current AHA-CPR card while in all EMS courses.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue

970.255.2670

Associates
• EMT - Paramedic (AAS) (p. 379)

Certificates
• EMT - Basic (Technical Certificate) (p. 381)
• EMT - Paramedic (Technical Certificate) (p. 382)

EMT - Paramedic (AAS)
Degree: Associate of Applied Science
Major: Emergency Medical Technician - Paramedic
Program Code: 1632

About This Major . . .
The EMT-Paramedic represents the most advanced level of training of the emergency medical technician system. At this level, the caregiver receives advanced training in the use of procedures, medications and equipment to manage medical emergencies and traumatic injuries in patients of all ages. EMT-Paramedics (EMT-4) provide the most extensive pre-hospital care. Through performance of assessments and providing medical care, their goal is to prevent and reduce mortality and morbidity due to illness and injury. Paramedics primarily provide care to emergency patients in an out-of-hospital setting. The program prepares the graduate to take the NREMT examination and become certified as an EMT-Paramedic. Extensive related coursework and clinical and field experience is required.

Students admitted to the program must have and maintain EMT-Basic certification throughout the EMT-Paramedic program. Admission to the Paramedic program is competitive. EMTs and paramedics should be emotionally stable, have good dexterity, agility, and physical coordination, and be able to lift and carry heavy loads.

EMT-Paramedics are employed by fire, police and rescue agencies, hospitals, private ambulance companies and in a variety of businesses and industries with a high potential for accidental injury or illness. For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate intellectual reasoning, rational inquiry, and effective problem-solving skills while maintaining empathy, professionalism, and compassion for another. (Intellectual Skills: Critical Thinking)
2. Recommend access to resources necessary to meet the diverse health care needs of individuals, families, and communities within cultural, ethical, legal, social, economic, and professional parameters. (Specialized Knowledge/ Applied Learning)
3. Manage the collaborative health care of individuals, families, and communities through use of clear, effective, thorough, and accurate communication (Intellectual Skills/ Communication Fluency)
4. Practice Paramedic level care, which includes emergency care, illness and restorative care, and health education based on a systematic assessment that is reflective of current emergency theory and research (Specialized Knowledge/Applied Learning)
5. Demonstrate NREMT standards of practice, including legal basics, principles for delegation, and principles of documentation while maintaining a culture of respect and safety. (Specialized Knowledge/Applied Learning)

### Institutional Degree Requirements

The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Specific to this degree:

- 63 semester hours total for the AAS, Emergency Medical Technician-Paramedic.

### Essential Learning Requirements

(16 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

#### Code | Title | Semester Credit Hours
--- | --- | ---
ENGL 111 | English Composition-GTCO1 | 3
SPCH 101 | Interpersonal Communications | 3
ENGL 112 | English Composition-GTCO2 | 3
SPCH 102 | Speechmaking | 3
MATH 107 | Career Math (or higher) | 3

#### Other Essential Learning Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 101 &amp; 101L</td>
<td>General Human Biology-GTSC1 and General Human Biology Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 16

1. MATH 110 or higher is required for BA/BAS programs.

### Other Lower Division Requirements

#### Wellness Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 2

### Program Specific Degree Requirements

(45 semester hours, must earn a grade of “C” or better in each course.)

#### Code | Title | Semester Credit Hours
--- | --- | ---
EMTS 225 | Fundamentals of Paramedic Practice | 3
EMTS 225L | Fundamentals of Paramedic Practice Laboratory | 2
EMTS 227 | Paramedic Special Considerations | 3
EMTS 227L | Paramedic Special Considerations Laboratory | 2
EMTS 229 | Paramedic Pharmacology | 3
EMTS 229L | Paramedic Pharmacology Laboratory | 2
EMTS 231 | Paramedic Cardiology | 5
EMTS 231L | Paramedic Cardiology Laboratory | 1
EMTS 233 | Paramedic Medical Emergencies | 4
EMTS 233L | Paramedic Medical Emergencies Laboratory | 1
EMTS 235 | Paramedic Trauma Emergencies | 4
EMTS 235L | Paramedic Trauma Emergencies Laboratory | 1
EMTS 237 | Paramedic Internship Preparation | 2
EMTS 280 | Paramedic Internship I | 6
EMTS 281 | Paramedic Internship II | 6

Total Semester Credit Hours: 45

#### First Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 101 &amp; 101L</td>
<td>General Human Biology-GTSC1 and General Human Biology Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>KINA 1XX</td>
<td>Activity</td>
<td>1</td>
</tr>
</tbody>
</table>

Semester Credit Hours: 18

#### Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMTS 225</td>
<td>Fundamentals of Paramedic Practice</td>
<td>3</td>
</tr>
<tr>
<td>EMTS 225L</td>
<td>Fundamentals of Paramedic Practice Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>

Semester Credit Hours: 18
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

EMT - Basic (Technical Certificate)

Degree: Technical Certificate

Program of Study: Emergency Medical Technician
Specialization: Basic
Program Code: 1631

About This Major . . .

The EMT-Basic represents the first component of the emergency medical technician system. An EMT-B is trained to care for patients at the scene of an accident and while transporting patients by ambulance to the hospital under medical direction. The EMT-B has the emergency skills to assess a patient’s condition and manage respiratory, cardiac, and trauma emergencies. EMT-Basic coursework typically emphasizes emergency skills, such as patient assessment, managing respiratory, trauma, and cardiac emergencies. Formal courses are combined with skills practice and time in an emergency room or ambulance for a total of 195 contact hours. The program also provides instruction and practice in dealing with bleeding, fractures, airway obstruction, cardiac arrest, and emergency childbirth. Students learn how to use and maintain common emergency equipment, such as backboards, suction devices, splints, oxygen delivery systems, and stretchers. Graduates of approved EMT-Basic training programs who pass a written and practical examination administered by the State certifying agency or the NREMT earn the title “Registered EMT-Basic.”

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate the theoretical knowledge and practical skills in the performance of patient assessment and develop a proper treatment plan. (Specialized Knowledge)
2. Demonstrate skills practice according to NREMT standards in safety, professional behavior and ethical conduct. (Applied Learning)
3. Apply standard of care skills and procedures to ensure the proper care and dosage of medications given to a patient. (Quantitative Fluency)
4. Communicate courteously and effectively with Dispatch personnel, other health care professionals, patients and with the public. (Communication Fluency)
5. Demonstrate error recognition and the ability to correctly interpret patient signs and symptoms, and establish a course of action to solve problems and improve patient outcome. (Critical Thinking)

Crosswalk Between CMU and CCCS EMT Curricula

<table>
<thead>
<tr>
<th>Colorado Mesa University Curriculum</th>
<th>Colorado Community College System Curriculum</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMTS 101 (3 credits)</td>
<td>EMT 125 (9 credits)</td>
</tr>
<tr>
<td>EMTS 102 (3 Credits)</td>
<td>EMT 170 (1 credit)</td>
</tr>
<tr>
<td>EMTS 103 (4 credits)</td>
<td></td>
</tr>
</tbody>
</table>

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
Program Specific Certificate Requirements
(10 semester hours, must maintain a 2.00 cumulative GPA or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMTS 101</td>
<td>Emergency Medical Technician - Basic I</td>
<td>3</td>
</tr>
<tr>
<td>EMTS 102</td>
<td>Emergency Medical Technician - Basic II</td>
<td>3</td>
</tr>
<tr>
<td>EMTS 103</td>
<td>Emergency Medical Technician - Basic III</td>
<td>4</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

EMT - Paramedic (Technical Certificate)

Degree: Technical Certificate
Program of Study: Emergency Medical Technician
Specialization: Paramedic
Program Code: 1636

About This Major . . .
The EMT-Paramedic represents the most advanced level of training of the emergency medical technician system. At this level, the caregiver receives advanced training in the use of procedures, medications and equipment to manage medical emergencies and traumatic injuries in patients of all ages. EMT-Paramedics (EMT-4) provide the most extensive pre-hospital care. Through performance of assessments and providing medical care, their goal is to prevent and reduce mortality and morbidity due to illness and injury. Paramedics primarily provide care to emergency patients in an out-of-hospital setting. The program prepares the graduate to take the NREMT examination and become certified as an EMT-Paramedic. Extensive related coursework and clinical and field experience is required.

Students admitted to the program must have and maintain EMT-Basic certification throughout the EMT-Paramedic program. Admission to the Paramedic program is competitive. EMTs and paramedics should be emotionally stable, have good dexterity, agility, and physical coordination, and be able to lift and carry heavy loads.

EMT-Paramedics are employed by fire, police and rescue agencies, hospitals, private ambulance companies and in a variety of businesses and industries with a high potential for accidental injury or illness.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.
All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate intellectual reasoning, rational inquiry, and effective problem-solving skills while maintaining empathy, professionalism, and compassion for another. (Intellectual Skills: Critical Thinking)
2. Recommend access to resources necessary to meet the diverse health care needs of individuals, families, and communities within cultural, ethical, legal, social, economic, and professional parameters. (Specialized Knowledge/Applied Learning)
3. Manage the collaborative health care of individuals, families, and communities through use of clear, effective, thorough, and accurate communication (Intucntual Skills: Communication Fluency)
4. Practice Paramedic level care, which includes emergency care, illness and restorative care, and health education based on a systematic assessment that is reflective of current emergency theory and research (Specialized Knowledge/Applied Learning)
5. Demonstrate NREMT standards of practice, including legal basics, principles for delegation, and principles of documentation while maintaining a culture of respect and safety. (Specialized Knowledge/Applied Learning)

**Institutional Certificate Requirements**

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Certificate Requirements**

(45 semester hours, must maintain a 2.00 cumulative GPA or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMTS 225</td>
<td>Fundamentals of Paramedic Practice</td>
<td>3</td>
</tr>
<tr>
<td>EMTS 225L</td>
<td>Fundamentals of Paramedic Practice Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EMTS 227</td>
<td>Paramedic Special Considerations</td>
<td>3</td>
</tr>
<tr>
<td>EMTS 227L</td>
<td>Paramedic Special Considerations Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EMTS 229</td>
<td>Paramedic Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>EMTS 229L</td>
<td>Paramedic Pharmacology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>EMTS 231</td>
<td>Paramedic Cardiology</td>
<td>5</td>
</tr>
<tr>
<td>EMTS 231L</td>
<td>Paramedic Cardiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EMTS 233</td>
<td>Paramedic Medical Emergencies</td>
<td>4</td>
</tr>
<tr>
<td>EMTS 233L</td>
<td>Paramedic Medical Emergencies Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EMTS 235</td>
<td>Paramedic Trauma Emergencies</td>
<td>4</td>
</tr>
<tr>
<td>EMTS 235L</td>
<td>Paramedic Trauma Emergencies Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>EMTS 237</td>
<td>Paramedic Internship Preparation</td>
<td>2</td>
</tr>
<tr>
<td>EMTS 280</td>
<td>Paramedic Internship I</td>
<td>6</td>
</tr>
<tr>
<td>EMTS 281</td>
<td>Paramedic Internship II</td>
<td>6</td>
</tr>
</tbody>
</table>

**First Year**

**Fall Semester**

- EMTS 225: Fundamentals of Paramedic Practice 3
- EMTS 225L: Fundamentals of Paramedic Practice Laboratory 2
- EMTS 227: Paramedic Special Considerations 3
- EMTS 227L: Paramedic Special Considerations Laboratory 2
- EMTS 229: Paramedic Pharmacology 3
- EMTS 229L: Paramedic Pharmacology Laboratory 2
- EMTS 231: Paramedic Cardiology 5
- EMTS 231L: Paramedic Cardiology Laboratory 1
- EMTS 233: Paramedic Medical Emergencies 4
- EMTS 233L: Paramedic Medical Emergencies Laboratory 1
- EMTS 235: Paramedic Trauma Emergencies 4
- EMTS 235L: Paramedic Trauma Emergencies Laboratory 1
- EMTS 237: Paramedic Internship Preparation 2

**Semester Credit Hours**: 33

**Spring Semester**

- EMTS 280: Paramedic Internship I 6
- EMTS 281: Paramedic Internship II 6

**Semester Credit Hours**: 12

**Total Semester Credit Hours**: 45

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis.
and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
ENERGY MANAGEMENT/ LANDMAN

Program Description
The certificate in energy management/landman is designed to provide students with the knowledge and skills needed to engage in landman activities in the energy sector. The certificate will provide students with a foundation for further study in the energy management/landman concentration in the BBA, which more fully prepares a person for a successful career in the growing energy industry.

Contact Information
Department of Business
Dominguez Hall 301
970.248.1778

Bachelors/Minors
• Energy Management/Landman, Business Administration (BBA) (p. 217)

Certificates
• Energy Management/Landman (Professional Certificate) (p. 385)

Energy Management/Landman (Professional Certificate)
Award: Professional Certificate
Program of Study: Energy Management/Landman
Program Code: 1174

About This Major . . .
The Certificate in Energy Management/Landman is designed to provide students with the knowledge and skills needed to engage in Landman/Energy Management activities in the workplace. The certificate will provide students with an overview of information they would encounter if they went on to earn the Energy Management/Landman Concentration in the BBA, which more fully prepares a person for a successful career in the growing energy industry.

Institutional Certificate Requirements
The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.
• Primarily 300-400 level courses.
• At least fifty percent of the credit hours must be taken at CMU.
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.

Program Specific Certificate Requirements
(12 semester hours, must earn a grade of "C" or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMGT 350</td>
<td>Energy Development, Transportation, and Markets</td>
<td>3</td>
</tr>
<tr>
<td>EMGT 355</td>
<td>Landman Geo-Petro-Engineering¹</td>
<td>3</td>
</tr>
<tr>
<td>EMGT 440</td>
<td>Energy Land Practices I¹</td>
<td>3</td>
</tr>
<tr>
<td>EMGT 450</td>
<td>Energy Land Practices II</td>
<td>3</td>
</tr>
</tbody>
</table>

¹ Consult with Business Department advisor regarding prerequisite classes that might be necessary to take.

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.
Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.
ENGINEERING

See Civil Engineering (p. 259) or Mechanical Engineering (p. 546)
ENGLISH

Program Description

The English program at Colorado Mesa University offers a Bachelor of Arts in literature, writing, or secondary education. Students will gain breadth as they read widely in world, British, and American literatures, and they will gain depth as they engage contemporary literary theory and rhetoric. With the intense focus on writing and critical thinking, graduates will feel well prepared as they enter master and doctoral programs, law school, library science programs, or move directly into the work force as public relations reps, guidance counselors, or administrators at institutions related to the arts. Opportunities abound as they hone their craft in poetry, fiction, and creative non-fiction workshops. Students may join the Creative Writers Club or work as an editor for CMU’s own literary magazine, the Literary Review, or Pinyon Poetry, a nationally circulating literaryperiodical. These internships provide invaluable experience and prepare students for careers in writing. For those with an interest in teaching, they will first gain an expertise in literature and language, followed with a focus on teaching as they design assignments, learn pedagogical theories, work closely with local middle and high school teachers, and complete student teaching internships. The Center for Teacher Education offers a comprehensive program of study that leads to licensure in Colorado. The secondary licensure program provides teacher education candidates with broad content knowledge in English and prepares them as teachers for grades 7 through 12. Above all, by reading, interpreting, and evaluating complex literature, theories, and criticism, students will learn to organize ideas, assert and defend claims, and perform research. Employers will value their ability to solve problems and present ideas in effective language to a wide range of audiences. They will think critically, having learned to weigh evidence, identify assumptions, evaluate persuasive appeals, and recognize faulty reasoning. Employers want smart, flexible, and creative employees, all hallmarks of a Colorado Mesa University graduate in English.

The English minor should be of interest to students who want to broaden their backgrounds in the liberal arts as well as to those planning careers in which experience in literature and writing is useful, such as law, journalism, advertising, theatre, business, public service, or graduate study in other academic subjects.

Contact Information

Department of Languages
Literature and Mass Communication
Escalante Hall 237
970.248.1687

Bachelors/Minors

• Education: Secondary Education, English (BA) (p. 391)
• English (Minor) (p. 398)
• Literature, English (BA) (p. 388)
• Writing, English (BA) (p. 395)

Graduate

• Rhetoric and Literary Studies (Graduate Certificate) (p. 367)

Literature, English (BA)

Degree: Bachelor of Arts

About This Major . . .

The English Program offers concentrations leading to a Bachelor of Arts in Literature, Creative Writing, and Secondary Education. The skills a student develops as an English major, such as writing, editing, problem solving, critical thinking, and analysis, are highly prized by employers in nearly every profession. The English Program is proud of what it offers – cultural experiences, unique and interesting courses and instruction, committed faculty and support staff, and a desire to provide the best liberal arts education possible.

Many occupations require individuals who can write and speak well, solve problems, learn new information quickly, and work well with others on a team. This means that English graduates use their education in a wide variety of fields, and your future career may relate more to your personal career interests, work values, and transferable skills than anything specific to the content of your major. Who hires English Majors? Book publishers, magazines, arts organizations, political offices, large corporations, radio/television stations, advertising agencies, social service agencies, chambers of commerce, research institutions, marketing consultants, newspapers, greeting card publishers, law firms, public interest organizations, consumer action groups, health organizations, educational institutions, literary agencies, theaters, printing firms, high tech firms, tutoring services, public and corporate libraries, government agencies, and public relations firms.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Express themselves effectively in a variety of forms. (Communication Fluency/Specialized Knowledge)
2. Support interpretive claims about a variety of texts. (Critical Thinking)
3. Identify the salient features of literary texts from a broad range of English and American literary periods. (Specialized Knowledge)
4. Employ knowledge of literary traditions to produce imaginative writing. (Communication Fluency/Applied Learning)
5. Use research to assist in problem-solving. (Critical Thinking)
6. Apply standard conventions of English grammar and punctuation and explain grammatical structures using relevant terminology. (Specialized Knowledge)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Essential Learning Requirements

#### Essential Learning Requirements (31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 31

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

### Other Lower Division Requirements

#### Wellness Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

#### Essential Learning Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Foundation Courses

(24 semester hours, must pass each course with a grade of “C” or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 210</td>
<td>Introduction to Literary Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 250</td>
<td>Introduction to Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 254</td>
<td>Survey of English Literature I-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 255</td>
<td>Survey of English Literature II-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 261</td>
<td>Survey of American Literature I-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 262</td>
<td>Survey of American Literature II-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>Two consecutive classes in the same foreign language</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 24

1 FLAS 114 & FLAS 115 will NOT fulfill this requirement.

### Program Specific Degree Requirements

(30 semester hours, must pass each course with a grade of “C” or higher and maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 421</td>
<td>Introduction to Literary Theory and Criticism</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 494</td>
<td>Seminar in Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

#### English Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 355</td>
<td>Shakespeare</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 370</td>
<td>Major Author</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 440</td>
<td>History of the English Language</td>
<td>3</td>
</tr>
<tr>
<td>or ENGL 451</td>
<td>Understanding and Using English Grammar</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Required Concentration Courses

#### Concentration Electives

**American Literature Electives**

Select two of the following: 6
ENGL 314 American Literature to 1830
ENGL 315 American Literature 1830-1870
ENGL 316 American Literature 1870-1900
ENGL 435 American Literature 1900-1945
ENGL 436 American Literature 1945-Present
ENGL 438 Ethnic Experiences in U.S. Literature

English Literature Electives

Select two of the following:

- ENGL 311 English Medieval Literature
- ENGL 313 English Renaissance Literature
- ENGL 470 18th Century British Literature
- ENGL 471 British Romanticism
- ENGL 475 Victorian Literature
- ENGL 478 20th Century British Literature

World Literature Electives

Select two of the following:

- ENGL 301 Classical Greek and Latin Literature
- ENGL 330 Women in World Thought and Literature
- ENGL 335 The Bible as Literature
- ENGL 423 Genre Studies

Total Semester Credit Hours 30

1 ENGL 494 must be taken after 90 semester hours have been accumulated. A student may take the seminar in the junior year, but must take it again in the senior year. The junior-year class will count as an elective.

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours, including 40 upper division hours. 29 semester hours; 10 hours of upper division may be needed.

It is strongly encouraged that you take additional English courses to satisfy some of your elective credits.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
<td>29</td>
</tr>
<tr>
<td>Course</td>
<td>Title</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td></td>
</tr>
</tbody>
</table>

First Year

Fall Semester

- ENGL 111 English Composition-GTO01 3
- MATH 110 College Mathematics-GTMA1 3
- Foundation Course - Foreign Language 3
- Essential Learning - Social and Behavioral Science 3
- Essential Learning - Humanities 3
- KINE 100 Health and Wellness 1

Spring Semester

- ENGL 112 English Composition-GTO02 3
- Elective 3
- Elective 3
- Foundation Course - Foreign Language 3

Second Year

Fall Semester

- ENGL 261 Survey of American Literature I-GTAH2 3
- ENGL 254 Survey of English Literature I-GTAH2 3
- Essential Learning - Social and Behavioral Science 3
- Essential Learning - History 3
- ENGL 250 Introduction to Creative Writing 3
- KINA Activity 1

Spring Semester

- ENGL 262 Survey of American Literature II-GTAH2 3
- ENGL 255 Survey of English Literature II-GTAH2 3
- Essential Learning - Natural Science 3
- ESSL 290 Maverick Milestone 3
- ESSL 200 Essential Speech 1

Third Year

Fall Semester

- ENGL 421 Introduction to Literary Theory and Criticism 3
- Upper Division Elective - American Literature 3
- Upper Division Elective 3
- Elective (2 courses) 6

Spring Semester

- ENGL 355 Shakespeare 3
- Upper Division Elective - World Literature 3
- Upper Division Elective 3
- Electives (2 courses) 6

Fourth Year

Fall Semester

- Upper Division Elective - American Literature 3
- ENGL 370 Major Author 3
- Upper Division Electives (2 courses) 6
- Elective 2

Spring Semester

- ENGL 494 Seminar in Literature 3
- ENGL 440 History of the English Language 3
- Electives (2 courses) 6

Semester Credit Hours 12

Total Semester Credit Hours 120

1 ENGL 150 suggested.
2 ENGL 131, ENGL 132, or ENGL 231 suggested.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).
DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

**Education: Secondary Education, English (BA)**

Degree: Bachelor of Arts  
Major: English  
Concentration: Secondary Education  
Program Code: 3215

**About This Major . . .**

The Center for Teacher Education offers a comprehensive program of study that leads to licensure in Colorado. Our professors are experienced, knowledgeable, accessible, and dedicated to the improvement of public education. At Colorado Mesa University, we pride ourselves on the personal touch. Faculty offer one-on-one guidance for course selection, field placements, student teaching, and employment. Our mission is to develop Educators as Innovators; we are always looking to improve the quality of learning in our programs and K-12 schools.

As a student, you will gradually accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout western Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings. The secondary licensure program provides teacher education candidates with broad content knowledge in English and prepares them as teachers for grades 7 through 12. A minimum of 75 credit hours of Essential Learning and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education secondary licensure program. Please see the Teacher Education Admission Packet for further information on admissions criteria. EDUC 115 and EDUC 215, must be taken before applying to the program.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Express themselves effectively in a variety of forms.
2. State and support, sometimes using research, interpretive claims about a variety of texts.
3. Identify the salient features of literary texts from a broad range of English and American literary periods.
4. Employ knowledge of literary traditions to produce imaginative writing.
5. Use research to assist in problem-solving.
6. Instruct K-12 students based on self-written learning plans to address individual learning and developmental patterns in English. (Specialized Knowledge)
7. Design a safe and supportive learning environment for elementary and secondary education students. (Applied Learning)
8. Apply English content knowledge while working with learners to access information in real world settings assuring learner mastery of the content. (Specialized Knowledge)
9. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication. (Critical Thinking/ Communication Fluency)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

## Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

### Code Title Semester Credit Hours

<table>
<thead>
<tr>
<th>Code</th>
<th>English</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
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<table>
<thead>
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<th>Code</th>
<th>Mathematics</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>History</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td>Select one History course</td>
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<td></td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Humanities</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one Humanities course</td>
<td>3</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Social and Behavioral Sciences</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Social and Behavioral Sciences</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
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<td></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Fine Arts</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one Fine Arts course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Natural Sciences</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one Natural Sciences course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Natural Sciences</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 31

1. Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.

2. One course must include a lab.

## Other Lower Division Requirements

### Code Title Semester Credit Hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Wellness Requirement</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
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</table>

Select one Activity course 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Essential Learning Capstone</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

### Code Title Semester Credit Hours

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

## Foundation Courses
(21 semester hours, must pass each course with a grade of “C” or better.)

### Code Title Semester Credit Hours

<table>
<thead>
<tr>
<th>Code</th>
<th>ENGL 210</th>
<th>Introduction to Literary Studies</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 254</td>
<td>Survey of English Literature I-GTAH2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 255</td>
<td>Survey of English Literature II-GTAH2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 261</td>
<td>Survey of American Literature I-GTAH2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 262</td>
<td>Survey of American Literature II-GTAH2</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Select two consecutive classes in the same foreign language 1 6

Total Semester Credit Hours 21

1. FLAS 114 & FLAS 115 will NOT fulfill this requirement.

## Program Specific Degree Requirements
(62 semester hours, must pass each course with a grade of “C” or better and maintain a 2.80 cumulative GPA or higher in coursework in this area.)

- 2.80 cumulative GPA or higher in all CMU coursework.
- All EDUC prefix courses must be completed with a grade of “B” or better.
- All other coursework toward the degree must be successfully completed prior to the internship.
- A grade of “C” or better must be earned in all required foundation and major courses, unless otherwise stated.

### Code Title Semester Credit Hours

<table>
<thead>
<tr>
<th>Code</th>
<th>English Core</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 421</td>
<td>Introduction to Literary Theory and Criticism</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 494</td>
<td>Seminar in Literature 1</td>
<td>3</td>
<td></td>
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</tbody>
</table>

### Code Title Semester Credit Hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Secondary Teaching Related Courses</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 250</td>
<td>Introduction to Creative Writing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 355</td>
<td>Shakespeare</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 365</td>
<td>Literature for Young Adults</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 451</td>
<td>Understanding and Using English Grammar</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 491</td>
<td>Composition Theory and Practice</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>THEA 403</td>
<td>Methods of Teaching Drama and Speech</td>
<td>3</td>
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</tbody>
</table>

### Code Title Semester Credit Hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Upper Division Literature</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>ENGL 301</td>
<td>Classical Greek and Latin Literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 311</td>
<td>English Medieval Literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 313</td>
<td>English Renaissance Literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 314</td>
<td>American Literature to 1830</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 315</td>
<td>American Literature 1830-1870</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 316</td>
<td>American Literature 1870-1900</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 330</td>
<td>Women in World Thought and Literature</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 370</td>
<td>Major Author</td>
<td></td>
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</tbody>
</table>
ENGL 435 American Literature 1900-1945
ENGL 436 American Literature 1945-Present
ENGL 438 Ethnic Experiences in U.S. Literature
ENGL 440 History of the English Language
ENGL 470 18th Century British Literature
ENGL 471 British Romanticism
ENGL 475 Victorian Literature
ENGL 478 20th Century British Literature

**English Electives**
Select two courses from the following list. One course must be upper division:

- ENGL 131 Western World Literature I-GTAH2
- ENGL 132 Western World Literature II-GTAH2
- ENGL 150 Introduction to Literature-GTAH2
- ENGL 222 Mythology-GTAH2
- ENGL 240 Children's Literature
- ENGL 301 Classical Greek and Latin Literature
- ENGL 311 English Medieval Literature
- ENGL 313 English Renaissance Literature
- ENGL 314 American Literature to 1830
- ENGL 315 American Literature 1830-1870
- ENGL 316 American Literature 1870-1900
- ENGL 330 Women in World Thought and Literature
- ENGL 335 The Bible as Literature
- ENGL 343 Language Systems and Linguistic Diversity
- ENGL 380 Memoir and Creative Non-Fiction
- ENGL 381 Creative Writing: Fiction
- ENGL 382 Creative Writing: Crafting Fiction
- ENGL 383 Creative Writing: Poetry
- ENGL 384 The Art of the Essay
- ENGL 385 Technical and Professional Writing
- ENGL 386 Roots of Modern Rhetoric
- ENGL 387 Literary Editing and Publishing
- ENGL 388 Creative Writing: Crafting Poetry
- ENGL 389 Screenwriting
- ENGL 390 Introduction to Film Studies
- ENGL 395 Independent Study
- ENGL 396 Topics
- ENGL 415 American Folklore
- ENGL 423 Genre Studies
- ENGL 435 American Literature 1900-1945
- ENGL 436 American Literature 1945-Present
- ENGL 438 Ethnic Experiences in U.S. Literature
- ENGL 440 History of the English Language
- ENGL 470 18th Century British Literature
- ENGL 471 British Romanticism
- ENGL 475 Victorian Literature
- ENGL 478 20th Century British Literature
- ENGL 495 Independent Study
- ENGL 496 Topics

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**Secondary Education Requirements**

- ENGL 111 What It Means To Be An Educator 1
- ENGL 215 Teaching as a Profession 1
- ENGL 342 Pedagogy and Assessment: Secondary and K-12 3
- ENGL 343 Teaching to Diversity 3
- ENGL 442 Integrating Literacy Across the Curriculum: Secondary and K12 Art 3
- ENGL 475 Classroom Management for K-12 Educators 1
- ENGL 497 Content Methodology Practicum 3
- ENGL 497A Methods of Teaching Secondary English 4
- EDUC 499G Teaching Internship and Colloquia: Secondary 12

Total Semester Credit Hours 29

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1 ENGL 494 must be taken after 60 semester hours have been accumulated. A student must take the seminar in their junior year.
2 Must pass courses with a grade of "B" or better.
3 Program Requirements: ENGL 111, ENGL 112, PSYC 233, EDUC 115 and ENGL 215 (all with a grade of "B" or better) and formal acceptance to the Teacher Education Program.
4 This course is only offered in the fall semester. It may be taken with either the 300-level or 400-level EDUC courses but must be taken before the student teaching semester.

**Suggested Course Sequencing for Spring Interns**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>Foundation Course - Foreign Language</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

---

**First Year**

**Fall Semester**

- ENGL 112 English Composition-GTCO2 3
- ENGL 250 Introduction to Creative Writing 3
- Foundation Course - Foreign Language 3
- Essential Learning - Fine Arts 3
- Essential Learning - Natural Science with Lab 4

**Second Year**

**Fall Semester**

- ENGL 261 Survey of American Literature I-GTAH2 3
- ENGL 254 Survey of English Literature I-GTAH2 3
- Essential Learning - Social and Behavioral Science 3
- Essential Learning - Humanities 3
- EDUC 115 What It Means To Be An Educator 1
- KINA Activity 1

**Spring Semester**

- ENGL 262 Survey of American Literature II-GTAH2 3

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**Total Semester Credit Hours** 33
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 255</td>
<td>Survey of English Literature II-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 210</td>
<td>Introduction to Literary Studies</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 210</td>
<td>Introduction to Literary Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 254</td>
<td>Survey of English Literature II-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 365</td>
<td>Literature for Young Adults</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 215</td>
<td>Teaching as a Profession</td>
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</tr>
<tr>
<td>ENGL 210</td>
<td>Introduction to Literary Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 255</td>
<td>Survey of English Literature II-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 261</td>
<td>Survey of American Literature II-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 254</td>
<td>Survey of English Literature II-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 365</td>
<td>Literature for Young Adults</td>
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</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
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<tr>
<td>ENGL 215</td>
<td>Teaching as a Profession</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 210</td>
<td>Introduction to Literary Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 255</td>
<td>Survey of English Literature II-GTAH2</td>
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<td>ENGL 365</td>
<td>Literature for Young Adults</td>
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<td>Maverick Milestone</td>
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<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
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<tr>
<td>ENGL 215</td>
<td>Teaching as a Profession</td>
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<tr>
<td>ENGL 210</td>
<td>Introduction to Literary Studies</td>
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<td>ENGL 255</td>
<td>Survey of English Literature II-GTAH2</td>
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<td>Maverick Milestone</td>
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<tr>
<td>ESSL 200</td>
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</tr>
<tr>
<td>ENGL 215</td>
<td>Teaching as a Profession</td>
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### Suggested Course Sequencing for Fall Interns

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<tbody>
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<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
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<td>Human Growth and Development-GTSS3</td>
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<td>KINE 100</td>
<td>Health and Wellness</td>
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<td>English Composition-GTCO2</td>
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<tr>
<td>ENGL 250</td>
<td>Introduction to Creative Writing</td>
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<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
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<tr>
<td>ENGL 491</td>
<td>Composition Theory and Practice</td>
<td>3</td>
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<tr>
<td>THEA 403</td>
<td>Methods of Teaching Drama and Speech</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 442</td>
<td>Integrating Literacy Across the Curriculum: Secondary and K-12 Art</td>
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<tr>
<td>EDUC 447</td>
<td>Content Methodology Practicum</td>
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<td>EDUC 497A</td>
<td>Methods of Teaching Secondary English</td>
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<td>EDUC 499G</td>
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<td>Methods of Teaching Secondary English</td>
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</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are
proficiency in critical thinking, communication fluency, quantitative

libraries, government agencies, and public relations firms.
printing firms, high tech firms, tutoring services, public and corporate
organizations, educational institutions, literary agencies, theaters,
firms, public interest organizations, consumer action groups, health
marketing consultants, newspapers, greeting card publishers, law
social service agencies, chambers of commerce, research institutions,
large corporations, radio/television stations, advertising agencies,
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Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his
responsibility to consult the Registrar's Office regarding next steps.

Writing, English (BA)

Degree: Bachelor of Arts
Major: English
Concentration: Writing
Program Code: 3213

About This Major . . .
The English Program offers concentrations leading to a Bachelor of Arts in Literature, Creative Writing, and Secondary Education. The skills a student develops as an English major, such as writing, editing, problem solving, and critical thinking and analysis, are highly prized by employers in nearly every profession. The English Program is proud of what it offers – cultural experiences, unique and interesting courses and instruction, committed faculty and support staff, and a desire to provide the best liberal arts education possible.

Many occupations require individuals who can write and speak well, solve problems, learn new information quickly, and work well with others on a team. This means that English graduates use their education in a wide variety of fields, and your future career may relate more to your personal career interests, work values, and transferable skills than anything specific to the content of your major. Who hires English Majors? Book publishers, magazines, arts organizations, political offices, large corporations, radio/television stations, advertising agencies, social service agencies, chambers of commerce, research institutions, marketing consultants, newspapers, greeting card publishers, law firms, public interest organizations, consumer action groups, health organizations, educational institutions, literary agencies, theaters, printing firms, high tech firms, tutoring services, public and corporate libraries, government agencies, and public relations firms.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.
### Lower Division Requirements

#### Code | Title | Semester Credit Hours
---|---|---
ENGL 111 | English Composition-GTCO1 | 3
ENGL 112 | English Composition-GTCO2 | 3
MATH 110 | College Mathematics-GTMA1 | 3

### Special Notes
1. Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.
2. One course must include a lab.

### Program Specific Degree Requirements

#### Literary Backgrounds

**Early Literature**

Select one of the following courses: 3
- ENGL 301 Classical Greek and Latin Literature
- ENGL 311 English Medieval Literature
- ENGL 313 English Renaissance Literature
- ENGL 335 The Bible as Literature
- ENGL 355 Shakespeare
- ENGL 470 18th Century British Literature

**Later Literature**

Select one of the following courses: 3
- ENGL 314 American Literature to 1830
- ENGL 315 American Literature 1830-1870
- ENGL 316 American Literature 1870-1900
- ENGL 330 Women in World Thought and Literature
- ENGL 435 American Literature 1900-1945
- ENGL 436 American Literature 1945-Present
- ENGL 438 Ethnic Experiences in U.S. Literature
- ENGL 471 British Romanticism
- ENGL 475 Victorian Literature
- ENGL 478 20th Century British Literature

**Writing Concentration Electives**

Select 9 semester hours of the following: 9
- ENGL 380 Memoir and Creative Non-Fiction
- ENGL 381 Creative Writing: Fiction
- ENGL 382 Creative Writing: Crafting Fiction
- ENGL 383 Creative Writing: Poetry
- ENGL 384 The Art of the Essay
- ENGL 385 Technical and Professional Writing
- ENGL 388 Creative Writing: Crafting Poetry
- ENGL 389 Screenwriting
- ENGL 396 Topics

1. FLAS 114 & FLAS 115 will NOT fulfill this requirement.

2. Select two consecutive classes in the same foreign language. 6

3. Total Semester Credit Hours 24

4. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.
ENGL 496 Topics

Total Semester Credit Hours 30

1 ENGL 494 must be taken after 90 semester hours have been accumulated. A student may take the seminar in the junior year, but must take it again in the senior year. The junior-year class will count as an elective.

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours, including 40 upper division hours. 29 semester hours; 10 hours of upper division may be needed.

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Course Title

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<tr>
<td>ENGL 111</td>
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<tr>
<td>MATH 110</td>
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<tr>
<td>Foundation Course - Foreign Language 3</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Science 3</td>
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<tr>
<td>Essential Learning - History 3</td>
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<tr>
<td>KINE 100</td>
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<td>Spring Semester</td>
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<tr>
<td>ENGL 112</td>
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<td>ENGL 250</td>
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<td>Foundation Course - Foreign Language 3</td>
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<tr>
<td>Essential Learning - Fine Arts 3</td>
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<td>Essential Learning - Natural Science with Lab 4</td>
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<td>Semester Credit Hours</td>
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<td>Second Year</td>
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<td>Fall Semester</td>
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<tr>
<td>ENGL 261</td>
</tr>
<tr>
<td>ENGL 254</td>
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<tr>
<td>Essential Learning - Social and Behavioral Science 3</td>
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<td>Essential Learning - Humanities 3</td>
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<td>Spring Semester</td>
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<td>ENGL 255</td>
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<tr>
<td>Upper Division Writing Elective 3</td>
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Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

English (Minor)
Minor: English
Program Code: M242

About This Minor . . .
The English minor should be of interest to students who want to broaden their backgrounds in the liberal arts as well as to those planning careers in which experience in literature and writing is useful, such as law, journalism, advertising, theatre, business, public service, or graduate study in other academic subjects.

Institutional Minor Requirements
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements
(18 semester hours)
- Students may NOT count ENGL 111 and ENGL 112 toward the English minor.

<table>
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Required Courses
Complete 18 hours (6 courses) in English, 6 hours of which must be upper division

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Total Semester Credit Hours 18

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process
A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
ENVIRONMENTAL SCIENCE AND TECHNOLOGY

Program Description
The goal of the Environmental Science and Technology program is to educate students in the science, protection and restoration of our natural resources—air, water, land and ecosystems. Students develop a foundation in biology, chemistry, mathematics, statistics and communication skills, then apply this knowledge to the study and solution of environmental problems. Theory is balanced with hands-on practice, which includes considerable work outdoors in the local environment during lab periods. Individual and group projects are a key component of courses and students participate in work performed in partnership with the Bureau of Land Management, U.S. Forest Service, Colorado National Monument and other organizations. Students must choose either the Pollution Monitoring and Control option, which focuses on pollution prevention as well as investigation, monitoring and cleanup, or the Ecosystem Restoration option, which focuses on protecting and restoring natural resources.

The Environmental Science and Technology minor is a valuable asset to students who are majoring in biology, chemistry or geology and planning to work in an environmental profession.

Students majoring in Environmental Science and Technology may also be interested in the certificate in Sustainability Practices (p. 683) and the minor in Watershed Science (p. 737).

Many environmental scientists use geographic information systems in their work. Students can learn this technology by pursuing the certificate in Geographic Information Systems and Technology (p. 423).

Contact Information
Department of Physical and Environmental Sciences
Wubben Science 232
970.248.1993

Bachelors/Minors
- Environmental Science and Technology (BS) (p. 399)
- Environmental Science and Technology (Minor) (p. 403)

Certificates
- Sustainability Practices (Professional Certificate) (p. 404)

Environmental Science and Technology (BS)
Degree: Bachelor of Science
Major: Environmental Science and Technology
Program Code: 3443

About This Major . . .
We educate students in the science, protection, and restoration of our natural resources—air, water, land, and ecosystems. Students develop a foundation in biology, chemistry, mathematics, statistics, and communication skills, then apply this knowledge to the study and solution of environmental problems. We balance theory with hands-on practice, and include considerable work outdoors in our spectacular local environment. Students choose either the Pollution Monitoring & Control option, which focuses on pollution prevention as well as investigation and cleanup, or the Ecosystem Restoration option, which focuses on strategies for managing natural resources. Students complete the program with our Capstone course, in which they work in small groups on real-life projects for an off-campus client. Each group plans and implements a project and presents the final results to its client. In addition to providing students with a chance to showcase the knowledge and abilities they have acquired through their studies, students learn how to deal with the challenges of real-life project work.

Our graduates take positions as environmental professionals with consulting firms, industry, and government agencies (e.g., U.S. Bureau of Land Management, U.S. Geological Survey, and U.S. Army Corps of Engineers). Some continue their studies in graduate school (e.g., Colorado School of Mines, Colorado State University, University of Denver).

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate an understanding of terminology, concepts, theories, and practices in environmental science. (Specialized Knowledge)
2. Demonstrate the ability to design an environmental study. (Applied Learning)
3. Demonstrate the ability to analyze quantitative environmental data, effectively translate data into graphs or tables, and interpret results. (Quantitative Fluency)
4. Demonstrate the ability to use appropriate tools, technology, and methods for measuring and analyzing environmental data. (Applied Learning)
5. Identify and evaluate assumptions, hypotheses, and alternative views on environmental problems, then articulate implications and form conclusions. (Critical Thinking)
6. Construct an organized argument (oral and written) supported by current research on a technical issue in environmental science appropriate for a specialized audience. (Communication Fluency)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

History
Select one History course

Select one Humanities course

Social and Behavioral Sciences
Select one Social and Behavioral Sciences course

Select one Social and Behavioral Sciences course

Fine Arts
Select one Fine Arts course

Natural Sciences
Select one Natural Sciences course

Select one Natural Sciences course with a lab

Total Semester Credit Hours

Other Lower Division Requirements

Wellness Requirement
KINE 100 Health and Wellness 1
Select one Activity course 1

Essential Learning Capstone
ESSL 290 Maverick Milestone 3
ESSL 200 Essential Speech 1

Total Semester Credit Hours

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(9-10 semester hours, must pass all courses with a grade of “C” or higher)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121</td>
<td>Principles of Chemistry-GTSC1</td>
<td></td>
</tr>
<tr>
<td>CHEM 121L</td>
<td>Principles of Chemistry Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>CHEM 123</td>
<td>Introduction to Environmental Chemistry</td>
<td></td>
</tr>
</tbody>
</table>

Option One:

Select one of the following options:

Option Two (recommended for students who plan to attend graduate school):

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 131</td>
<td>General Chemistry I-GTSC1</td>
<td></td>
</tr>
<tr>
<td>CHEM 131L</td>
<td>General Chemistry Laboratory I-GTSC1</td>
<td></td>
</tr>
<tr>
<td>CHEM 132</td>
<td>General Chemistry II-GTSC1</td>
<td></td>
</tr>
<tr>
<td>CHEM 132L</td>
<td>General Chemistry Laboratory II-GTSC1</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

Program Specific Degree Requirements
(57 semester hours, must pass all courses with a grade of “C” or higher)

Introduction to Environmental Science
Select one of the following options 3-4

Option 1:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 104</td>
<td>Environmental Science: Global Sustainability</td>
<td></td>
</tr>
</tbody>
</table>

Option 2:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 101</td>
<td>Introduction to Environmental Science-GTSC2</td>
<td></td>
</tr>
<tr>
<td>ENVS 105</td>
<td>Readings in Environmental Science</td>
<td></td>
</tr>
</tbody>
</table>

Core Environmental Science Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 204</td>
<td>Introduction to Ecosystem Management</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 204L</td>
<td>Introduction to Ecosystem Management Laboratory</td>
<td></td>
</tr>
<tr>
<td>ENVS 221</td>
<td>Science and Technology of Pollution Control</td>
<td>3</td>
</tr>
</tbody>
</table>
ENVS 221L Science and Technology of Pollution Control Laboratory 1
ENVS 331 Water Quality 3
ENVS 331L Water Quality Laboratory 1
ENVS 340 Applied Atmospheric Science 3
ENVS 492 Capstone in Environmental Science and Technology 2
STAT 200 Probability and Statistics-GTMA1 3

Select one of the following courses: 3-5
MATH 146 Calculus for Biological Sciences
MATH 151 Calculus I-GTMA1
ENVS 475 Experimental Design and Statistical Analysis in Environmental Science

Environmental Science Options
Select one of the following options: 14-15
Option 1: Pollution Monitoring and Control:
ENVS 212 Environmental Health and Safety
ENVS 212L Environmental Health and Safety Laboratory
ENVS 410 Environmental Regulatory Compliance
ENVS 420 Pollution Investigation & Monitoring
ENVS 420L Pollution Investigation & Monitoring Laboratory
GEOL 111 Principles of Physical Geology-GTSC1
GEOL 111L Principles of Physical Geology Laboratory-GTSC1

Option 2: Ecosystem Restoration:
ENVS 312 Soil Science and Sustainability
ENVS 312L Soil Science and Sustainability Laboratory
ENVS 455 Restoration Ecology
ENVS 455L Restoration Ecology Laboratory
POLS 488 Environmental Politics and Policy
B IOL 107 Principles of Plant Biology
B IOL 107L Principles of Plant Biology Laboratory

Total Semester Credit Hours 13-17

General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 16-17 semester hours

Code Title Semester Credit Hours
MATH 113 College Algebra-GTMA1 1

Select additional electives 15-16

Total Semester Credit Hours 16-17

Pollution Monitoring and Control

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 212</td>
<td>Environmental Health and Safety</td>
<td></td>
</tr>
<tr>
<td>ENVS 212L</td>
<td>Environmental Health and Safety Laboratory</td>
<td></td>
</tr>
<tr>
<td>ENVS 278</td>
<td>Permaculture Design</td>
<td></td>
</tr>
<tr>
<td>ENVS 278L</td>
<td>Permaculture Design Laboratory</td>
<td></td>
</tr>
<tr>
<td>ENVS 301</td>
<td>Environmental Project Management</td>
<td></td>
</tr>
<tr>
<td>ENVS 312</td>
<td>Soil Science and Sustainability</td>
<td></td>
</tr>
<tr>
<td>ENVS 312L</td>
<td>Soil Science and Sustainability Laboratory</td>
<td></td>
</tr>
<tr>
<td>ENVS 315</td>
<td>Mined Land Rehabilitation</td>
<td></td>
</tr>
<tr>
<td>ENVS 321</td>
<td>Environmental Risk Analysis</td>
<td></td>
</tr>
<tr>
<td>ENVS 337</td>
<td>Stream Biomonitoring</td>
<td></td>
</tr>
<tr>
<td>ENVS 350</td>
<td>Ecology and Management of Shrublands and Grasslands</td>
<td></td>
</tr>
<tr>
<td>ENVS 350L</td>
<td>Ecology and Management of Shrublands and Grasslands Laboratory</td>
<td></td>
</tr>
<tr>
<td>ENVS 354</td>
<td>Forest Ecology and Management</td>
<td></td>
</tr>
</tbody>
</table>

First Year
Fall Semester
ENGL 111 English Composition-GTCO1 3
MATH 113 College Algebra-GTMA1 4
ENVS 104 Environmental Science: Global Sustainability 3
Essential Learning - Natural Science with Lab 4
KINE 100 Health and Wellness 1

Spring Semester
GEOL 111 Principles of Physical Geology-GTSC1 4
& 111L Principles of Physical Geology Laboratory-GTSC1
ENGL 112 English Composition-GTCO2 3
STAT 200 Probability and Statistics-GTMA1 3
Essential Learning - Social and Behavioral Science 3
Essential Learning - Natural Science 3

Total Semester Credit Hours 16
## Second Year

### Fall Semester

Select one of the following:

- **CHEM 121 & 121L** Principles of Chemistry - GTSC1 and Principles of Chemistry Laboratory - GTSC1
- **CHEM 131 & 131L** General Chemistry I - GTSC1 and General Chemistry Laboratory I - GTSC1
- **ENVS 204 & 204L** Introduction to Ecosystem Management and Introduction to Ecosystem Management Laboratory
- **Restricted Elective 1**
- **Essential Learning - Fine Arts**
- **KINA Activity**

**Semester Credit Hours:** 14

### Spring Semester

- **ENVS 221 & 221L** Science and Technology of Pollution Control and Science and Technology of Pollution Control Laboratory
- **CHEM 132 & 132L** General Chemistry II - GTSC1 or Introduction to Environmental Chemistry
- **MATH 146** Calculus for Biological Sciences or MATH 151
- **Essential Learning - Social and Behavioral Sciences**

**Semester Credit Hours:** 16-17

## Third Year

### Fall Semester

- **ENVS 331 & 331L** Water Quality and Water Quality Laboratory
- **Essential Learning - Humanities**
- **ESSL 200** Essential Speech
- **ESSL 290** Maverick Milestone

**Semester Credit Hours:** 14

### Spring Semester

- **ENVS 312 & 312L** Soil Science and Sustainability Laboratory
- **ENVS 340** Applied Atmospheric Science
- **ENVS 410** Environmental Regulatory Compliance
- **Restricted Electives**
- **Essential Learning - History**

**Semester Credit Hours:** 15

## Fourth Year

### Fall Semester

- **ENVS 492 & 492L** Capstone in Environmental Science and Technology and Capstone in Environmental Science and Technology Laboratory
- **ENVS 455 & 455L** Restoration Ecology and Restoration Ecology Laboratory
- **General Electives**

**Semester Credit Hours:** 14-15

### Spring Semester

- **ENVS 492 & 492L** Capstone in Environmental Science and Technology and Capstone in Environmental Science and Technology Laboratory
- **ENVS 455 & 455L** Restoration Ecology and Restoration Ecology Laboratory
- **General Electives**

**Semester Credit Hours:** 14-15

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### Ecosystem Restoration

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition - GTC01</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra - GTMA1</td>
<td>4</td>
</tr>
<tr>
<td>ENVS 104</td>
<td>Environmental Science: Global Sustainability</td>
<td>3</td>
</tr>
</tbody>
</table>

| **Second Year** |      |                       |
| Fall Semester |      |                       |
| ENGL 111 | English Composition - GTC01 | 3 |
| MATH 113 | College Algebra - GTMA1 | 4 |
| ENVS 104 | Environmental Science: Global Sustainability | 3 |

| **Spring Semester** |      |                       |
| BIOL 107 | Principles of Plant Biology | 4 |
| ENGL 112 | English Composition - GTC02 | 3 |
| STAT 200 | Probability and Statistics - GTMA1 | 3 |

| **Essential Learning - Social and Behavioral Sciences** |      |                       |
| **KINA Activity** |      |                       |

**Total Semester Credit Hours:** 119-121
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Environmental Science and Technology (Minor)

Minor: Environmental Science and Technology
Program Code: M440

About This Minor . . .

We educate students in the science, protection, and restoration of our natural resources—air, water, land, and ecosystems. We balance theory with hands-on practice, and include considerable work outdoors in our spectacular local environment. Individual and group projects are a key part of our courses. Our students have opportunities to take part in work done through partnerships with organizations such as the Colorado National Monument and the Bureau of Land Management.

The Environmental Science minor is an invaluable asset to students who are majoring in biology, chemistry, or geology and planning to work in an environmental profession.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

• A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
• Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
• At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
• At least 25 percent of the classes must be taken at CMU.
• 2.00 cumulative GPA or higher for the courses used for the minor.
• A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
• A minor must be outside the major field of study.
• A student may earn up to five minors with any baccalaureate degree at CMU.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(15 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 104</td>
<td>Environmental Science: Global Sustainability</td>
<td>3-4</td>
</tr>
<tr>
<td>ENVS 101</td>
<td>Introduction to Environmental Science-GTSC2 &amp; ENVS 105 and Readings in Environmental Science</td>
<td>1</td>
</tr>
</tbody>
</table>

Select courses from Environmental Science and Technology (ENVS)11-12 to bring total semester hours to 15

Total Semester Credit Hours 14-16

1 Either ENVS 104 or ENVS 101/ENVS 105 may be taken for credit, but not both.

2 At least 5 of the semester hours required for this minor must be upper division.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their
advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Sustainability Practices (Professional Certificate)

Degree: Professional Certificate
Program of Study: Sustainability Practices
Program Code: 1464

About This Major . . .
“Sustainability” is a way of living that meets the needs of the present without compromising the ability of future generations to meet their own needs. In order to achieve sustainability, we must examine our approach to energy, food, shelter, transportation, and other aspects of everyday life. Can we continue our current approach indefinitely? What changes need to occur to make our approach sustainable? What can we do to make those changes?

Through the Certificate in Sustainability Practices, students learn the principles of sustainability along with specific ways to implement them. Anyone seeking to understand and practice this approach will benefit from completion of the program. For some, the program can serve as a first step toward a more in-depth knowledge that may lead to a career. Earning this certificate helps professionals to improve their business practices and community leaders to understand trends in community planning. Any citizen will learn ways to improve the environment through their personal choices.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

Institutional Certificate Requirements
The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.
• Primarily 300-400 level courses.
• At least fifty percent of the credit hours must be taken at CMU.
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(9 semester hours, must earn a “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td>Select one of the following courses:</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 101</td>
<td>Introduction to Environmental Science-GTSC2 ^1</td>
<td></td>
</tr>
<tr>
<td>ENVS 104</td>
<td>Environmental Science: Global Sustainability ^1</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

^1 Either ENVS 104 or ENVS 101 may be taken for credit, but not both.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Restricted Electives</td>
<td>Select 6 hours of electives from the following list approved by department head:</td>
<td>6</td>
</tr>
<tr>
<td>ENVS 278</td>
<td>Permaculture Design &amp; 278L and Permaculture Design Laboratory</td>
<td></td>
</tr>
<tr>
<td>ENVS 370</td>
<td>Renewable Energy or GEOL 370 Renewable Energy</td>
<td></td>
</tr>
<tr>
<td>ENVS 374</td>
<td>Sustainable Building</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.
EXERCISE SCIENCE

Program Description

Students enrolled in this major should have a strong interest in the sciences as this program applies science to human function. The student will begin studies with science courses such as physics, general chemistry and human anatomy and physiology. Continued studies will include courses such as exercise physiology, anatomical kinesiology, biomechanics, physical activity and aging, human nutrition and sports nutrition, among other subject areas. This major is designed to prepare students for graduate programs such as athletic training, exercise physiology, physician assistant studies, physical therapy, and occupational therapy. Exercise Science students frequently continue their study for graduate or professional degrees at universities widely recognized as top programs in exercise physiology, physician assistant studies, physical therapy, occupational therapy, physical education and public health.

Contact Information

Department of Kinesiology
Maverick Center 237B
970.248.1635

Bachelors/Minors

- Exercise Science (BS) (p. 406)
- Exercise Science (Minor) (p. 410)

Exercise Science (BS)

Degree: Bachelor of Science
Major: Exercise Science
Program Code: 3138

About This Major . . .

Students enrolled in this concentration should have a strong interest in the sciences as this program applies science to human function. The student will begin studies with science courses such as physics, general chemistry, and human anatomy & physiology. Continued studies will include courses such as: exercise physiology, anatomical kinesiology, biomechanics, physical activity and aging, medical conditions and pharmacology, and sports nutrition, among other subject areas. This major is designed to prepare students for graduate programs such as: physical therapy, physician’s assistant, occupational therapy, and exercise physiology.

Colorado Mesa students frequently continue their study for graduate or professional degrees at universities widely recognized as top programs in exercise physiology, physical therapy, occupational therapy, physical education and public health.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Evaluate the functions of the individual body systems. (Specialized Knowledge)
2. Identify risk factors associated with chronic disease. (Specialized Knowledge)
3. Identify the scope and definitions of health, fitness, and human performance with the ability to analyze the data critically. (Applied Learning, Quantitative Fluency)
4. Describe procedures and/or statistical analyses for physiological assessments. (Quantitative Fluency)
5. Apply biomechanical principles to movement and be able to communicate and formulate conclusions about the results. (Critical Thinking)
6. Demonstrate the ability to clearly communicate specialized knowledge. (Communication Fluency)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
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<td></td>
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<tr>
<td>History</td>
<td>Select one History course</td>
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</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
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</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Select one Natural Sciences course with a lab</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

1. Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2. This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3. PSYC 233 is suggested.
4. 7 semester hours, one course must include a lab. PHYS 111/PHYS 111L and PHYS 112/PHYS 112L are suggested.

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>Wellness Requirement</td>
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</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning Capstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
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<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>7</td>
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</tbody>
</table>

1. KINA 128 is suggested because it is a prerequisite for KINE 403.
2. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Foundation Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
</tbody>
</table>

### Program Specific Degree Requirements

(48-54 semester hours, must pass all courses with a grade of "C" or higher and maintain a 2.0 cumulative GPA or higher in coursework toward the major content area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 131</td>
<td>General Chemistry I-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 131L</td>
<td>General Chemistry Laboratory I-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 132</td>
<td>General Chemistry II-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 132L</td>
<td>General Chemistry Laboratory II-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td>0-3</td>
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<tr>
<td>KINE 265</td>
<td>First Aid and CPR/AED for the Health Care Provider</td>
<td></td>
</tr>
<tr>
<td>Current CPR card</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
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<td>17-20</td>
</tr>
</tbody>
</table>

### Required Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>KINE 200</td>
<td>History and Philosophy of Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KINE 203</td>
<td>Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>KINE 213</td>
<td>Applications of Physical Fitness and Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KINE 301</td>
<td>Health and Fitness Assessment</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303L</td>
<td>Physiology of Exercise Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>KINE 309</td>
<td>Anatomical Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 370</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>KINE 370L</td>
<td>Biomechanics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>KINE 403</td>
<td>Advanced Strength and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>or KINE 404</td>
<td>Clinical Exercise Physiology and Advanced Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KINE 405</td>
<td>Sports Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>KINE 415</td>
<td>Physical Activity and Aging</td>
<td>3</td>
</tr>
<tr>
<td>KINE 494</td>
<td>Kinesiology Senior Seminar</td>
<td>1</td>
</tr>
<tr>
<td>KINE 499</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>36</td>
</tr>
</tbody>
</table>

### Restricted Electives

Select four courses from the list below. Courses listed with a lecture 2-18 and a lab are counted as one course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 210</td>
<td>Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td></td>
</tr>
<tr>
<td>BIOL 301</td>
<td>Principles of Genetics and Principles of Genetics Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 341</td>
<td>General Physiology and General Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 409</td>
<td>Gross and Developmental Human Anatomy and Gross and Developmental Human Anatomy Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Semester Credit Hours</td>
</tr>
<tr>
<td>----------</td>
<td>----------------------------------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>CHEM 311</td>
<td>Organic Chemistry I and Organic Chemistry I Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 312</td>
<td>Organic Chemistry II and Organic Chemistry II Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 315</td>
<td>Biochemistry and Biochemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>KINE 401</td>
<td>Organization/Administration/Legal Considerations in Physical Education and Sports</td>
<td></td>
</tr>
<tr>
<td>KINE 403</td>
<td>Advanced Strength and Conditioning</td>
<td></td>
</tr>
<tr>
<td>KINE 404</td>
<td>Clinical Exercise Physiology and Advanced Exercise Prescription 1</td>
<td></td>
</tr>
<tr>
<td>KINE 420</td>
<td>Therapeutic Interventions</td>
<td></td>
</tr>
<tr>
<td>KINE 487</td>
<td>Structured Research</td>
<td></td>
</tr>
<tr>
<td>PSYC 340</td>
<td>Abnormal Psychology</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>12-18</strong></td>
</tr>
</tbody>
</table>

Do not double count KINE 403/KINE 404 from the list of major requirements.

### General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total hours to 120 hours. 8-17 semester hours.

If you choose 200-level courses for the Restricted Electives above, make sure you choose 300 and above courses for electives to ensure having 40 hours of upper division courses for graduation.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Select additional electives</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>8-17</strong></td>
</tr>
</tbody>
</table>

1. While the sequencing below culminates in a total of 116-124 semester credit hours, students must complete a minimum of 120 semester credit hours as required for completion of the degree. Plan to complete requirements with varying hour options accordingly.

### General Course Recommendations in Preparation for Graduate Study by Program:

Graduate or Professional Schools in Exercise Science and Professional Schools in Medicine (MD), Physical Therapy (PT), Occupational Therapy (OT), Physician Assistant (PA), and Chiropractic programs often have their own unique prerequisites that are not part of the Exercise Science major requirements. For example, two semesters of General Physics are required for most MD, PT, and Chiropractic programs. The following lists provide some guidance, but, because prerequisites vary significantly from school to school, students need to check specific requirements for schools where they are planning to apply for admission.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 209L</td>
<td>and Human Anatomy and Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 131</td>
<td>General Chemistry I-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 131L</td>
<td>and General Chemistry Laboratory I-GTSC1</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
<td><strong>Semester Credit Hours</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Essential Learning - Social and Behavioral Science</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Essential Learning - Humanities</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Essential Learning - Fine Arts</strong></td>
<td>3</td>
</tr>
<tr>
<td>KINE 265</td>
<td>First Aid and CPR/AED for the Health Care Provider</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 132</td>
<td>General Chemistry II-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 132L</td>
<td>and General Chemistry Laboratory II-GTSC1</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td>Select additional electives</td>
<td><strong>7-16</strong></td>
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<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>8-17</strong></td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 403</td>
<td>or KINE 404</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Advanced Strength and Conditioning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or Clinical Exercise Physiology and Advanced Exercise Prescription 1</td>
<td></td>
</tr>
<tr>
<td>KINE 405</td>
<td>Sports Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td><strong>3-5</strong></td>
<td></td>
</tr>
<tr>
<td>Elective (if needed)</td>
<td><strong>3</strong></td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 499</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td><strong>3-5</strong></td>
<td></td>
</tr>
<tr>
<td>KINE 494</td>
<td>Kinesiology Senior Seminar</td>
<td>1</td>
</tr>
<tr>
<td>Electives (2 courses)</td>
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<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
<td><strong>Semester Credit Hours</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Essential Learning - Social and Behavioral Science</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Essential Learning - Humanities</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Essential Learning - Fine Arts</strong></td>
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</tr>
<tr>
<td>KINE 265</td>
<td>First Aid and CPR/AED for the Health Care Provider</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 132</td>
<td>General Chemistry II-GTSC1</td>
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</tr>
<tr>
<td>&amp; 132L</td>
<td>and General Chemistry Laboratory II-GTSC1</td>
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<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
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</tr>
<tr>
<td>Select additional electives</td>
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<td></td>
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<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>8-17</strong></td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 200</td>
<td>History and Philosophy of Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KINA Activity</td>
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<tr>
<td>Restricted Elective</td>
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<th>Course</th>
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<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GT001</td>
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<td>KINE 100</td>
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<td>KINE 200</td>
<td>History and Philosophy of Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KINA Activity</td>
<td><strong>1</strong></td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Natural Science with Lab</td>
<td><strong>4</strong></td>
<td></td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GT002</td>
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<tr>
<td>KINE 213</td>
<td>Applications of Physical Fitness and Exercise Prescription</td>
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</tr>
<tr>
<td>Essential Learning - Social and Behavioral Science</td>
<td><strong>3</strong></td>
<td></td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td><strong>3</strong></td>
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<tr>
<td>Essential Learning - Natural Science</td>
<td><strong>3</strong></td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 200</td>
<td>Human Nutrition</td>
<td>3</td>
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<table>
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<th>Course</th>
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<th>Semester Credit Hours</th>
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<td><strong>Fall Semester</strong></td>
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<tr>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
<td><strong>16</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
<td><strong>Semester Credit Hours</strong></td>
</tr>
<tr>
<td></td>
<td><strong>First Year</strong></td>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td></td>
<td><strong>Second Year</strong></td>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
<td><strong>3</strong></td>
</tr>
</tbody>
</table>

General Course Recommendations in Preparation for Graduate Study by Program:
### General Recommendations for Graduate Programs:

#### Exercise Physiology

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 409 &amp; 409L</td>
<td>Gross and Developmental Human Anatomy and Gross and Developmental Human Anatomy Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 311 &amp; 311L</td>
<td>Organic Chemistry I and Organic Chemistry I Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>CHEM 312 &amp; 312L</td>
<td>Organic Chemistry II and Organic Chemistry II Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>KINE 487</td>
<td>Structured Research</td>
<td>1-3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 15-17

#### Biomechanics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 409 &amp; 409L</td>
<td>Gross and Developmental Human Anatomy and Gross and Developmental Human Anatomy Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111 &amp; 111L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 112 &amp; 112L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>5</td>
</tr>
<tr>
<td>KINE 487</td>
<td>Structured Research</td>
<td>1-3</td>
</tr>
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</table>

Total Semester Credit Hours: 20-22

#### General Recommendations for Graduate Professional Programs:

##### Medicine

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>CHEM 311 &amp; 311L</td>
<td>Organic Chemistry I and Organic Chemistry I Laboratory</td>
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<tr>
<td>CHEM 312 &amp; 312L</td>
<td>Organic Chemistry II and Organic Chemistry II Laboratory</td>
<td>5</td>
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<tr>
<td>PHYS 111 &amp; 111L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 112 &amp; 112L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
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</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
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</tr>
<tr>
<td>PSOC 260</td>
<td>General Sociology-GTSS3</td>
<td>3</td>
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</table>

Total Semester Credit Hours: 27-36

#### Physician's Assistant

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 409 &amp; 409L</td>
<td>Gross and Developmental Human Anatomy and Gross and Developmental Human Anatomy Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 209 &amp; 209L</td>
<td>Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 210 &amp; 210L</td>
<td>Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 111 &amp; 111L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 112 &amp; 112L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>PSOC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>PSOC 310</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PSOC 340</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 499</td>
<td>Internship</td>
<td>3-12</td>
</tr>
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</table>

Total Semester Credit Hours: 21-30

### Physical Therapy

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 409 &amp; 409L</td>
<td>Gross and Developmental Human Anatomy and Gross and Developmental Human Anatomy Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 209 &amp; 209L</td>
<td>Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>BIOL 210 &amp; 210L</td>
<td>Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 111 &amp; 111L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 112 &amp; 112L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>PSOC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>PSOC 310</td>
<td>Child Psychology</td>
<td>3</td>
</tr>
<tr>
<td>or PSOC 340</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 499</td>
<td>Internship</td>
<td>3-12</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 27-36

#### Occupational Therapy

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 409 &amp; 409L</td>
<td>Gross and Developmental Human Anatomy and Gross and Developmental Human Anatomy Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111 &amp; 111L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>PSOC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>PSOC 340</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 499</td>
<td>Internship</td>
<td>3-12</td>
</tr>
</tbody>
</table>

Sociology and/or Anthropology courses
Medical Terminology

Total Semester Credit Hours 18:27

Chiropractic

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 311</td>
<td>Organic Chemistry I and Organic Chemistry I Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 311L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHEM 312</td>
<td>Organic Chemistry II and Organic Chemistry II Laboratory</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 312L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 111L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 112</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 112L</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Social Science and Humanities courses

Total Semester Credit Hours 20

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Exercise Science (Minor)

Minor: Exercise Science

Program Code: M104

About This Minor. . .

Students enrolled in the Exercise Science minor should have a strong interest in fitness, health promotion, and exercise science. Students will explore subject areas that include: anatomy, physiology, kinesiology, applications of physical fitness, and exercise physiology.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(24 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>KINE 213</td>
<td>Applications of Physical Fitness and Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KINE 297</td>
<td>Practicum</td>
<td>1</td>
</tr>
<tr>
<td>KINE 301</td>
<td>Health and Fitness Assessment</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303L</td>
<td>Physiology of Exercise Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>KINE 309</td>
<td>Anatomical Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 203</td>
<td>Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>KINE 310</td>
<td>Methods of Exercise Instruction</td>
<td>3</td>
</tr>
<tr>
<td>KINE 370</td>
<td>Biomechanics</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 370L</td>
<td>and Biomechanics Laboratory</td>
<td></td>
</tr>
<tr>
<td>KINE 403</td>
<td>Advanced Strength and Conditioning</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two courses from the list below. Courses listed with a lecture and lab are counted as one course.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 404</td>
<td>Clinical Exercise Physiology and Advanced</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Exercise Prescription</td>
<td></td>
</tr>
<tr>
<td>KINE 405</td>
<td>Sports Nutrition</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Students must provide a copy of a current First</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aid/CPR or take one of the following:</td>
<td></td>
</tr>
<tr>
<td>KINE 265</td>
<td>First Aid and CPR/AED for the Health Care Provider</td>
<td></td>
</tr>
<tr>
<td>KINE 250</td>
<td>Lifeguard Training</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 24-25

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.

**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
FINANCE

See Business (p. 203)
FITNESS AND HEALTH PROMOTION

Students enrolled in fitness and health promotion should have a strong interest in the sciences as this program applies science to human function. The student will explore exercise physiology, anatomical kinesiology, community health or physical activity and aging, worksite health promotion, human nutrition and sports nutrition, among other subject areas. Career opportunities include: sports and wellness program instructors and directors; strength coaches for college, university and professional sports programs; managers and exercise leaders in corporate wellness programs; nutritionist; occupational therapist; and personal trainer.

1 These programs may require additional schooling.

Contact Information
Department of Kinesiology
Maverick Center 237B
970.248.1635

Bachelors

• Fitness and Health Promotion (BS) (p. 413)

Fitness and Health Promotion (BS)

Degree: Bachelor of Science
Major: Fitness and Health Promotion
Program Code: 3149

About This Major...

Students enrolled in this major should have a strong interest in the sciences as this program applies science to human function. The student will explore exercise physiology, anatomical kinesiology, community health, physical activity and aging, worksite health promotion, and sports nutrition, among other subject areas. Career opportunities include: sports and wellness program instructors and directors; strength coaches for college, university and professional sports programs; managers and exercise leaders in corporate wellness programs; nutritionist; occupational therapist; and personal trainers.

*Career requires additional post-baccalaureate studies.

Colorado Mesa students frequently continue their study for graduate or professional degrees at universities widely recognized as top programs in exercise physiology, occupational therapy, physical education, and public health.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Evaluate the functions of the individual body systems. (Specialized Knowledge)
2. Identify risk factors associated with chronic disease. (Specialized Knowledge)
3. Identify exercise cautions and other safety concerns. (Critical Thinking)
4. Identify the scope and definitions of health, fitness, and human performance, with the ability to analyze the data critically. (Applied Learning, Quantitative Fluency)
5. Describe and communicate how physical activity relates to health. (Communication Fluency)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
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<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
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</tbody>
</table>

Mathematics

1
Fitness and Health Promotion (BS)

MATH 113  College Algebra-GTMA1²  3

History
Select one History course 3

Humanities
Select one Humanities course 3

Social and Behavioral Sciences
Select one Social and Behavioral Sciences course 3
Select one Social and Behavioral Sciences course 3

Fine Arts
Select one Fine Arts course 3

Natural Sciences
Select one Natural Sciences course 3
Select one Natural Sciences course with a lab 4

Total Semester Credit Hours 31

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 This is a 4 semester credit hour course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.

Other Lower Division Requirements
(7 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
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<tr>
<td>KINA 1XX</td>
<td>Activity Course</td>
<td>1</td>
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<tr>
<td>KINA 1XX</td>
<td>Activity Course</td>
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Essential Learning Capstone¹

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
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<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
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</table>

Total Semester Credit Hours 7

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(10-14 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 315</td>
<td>Epidemiology</td>
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<tr>
<td>KINE 333</td>
<td>Community Health²</td>
<td></td>
</tr>
<tr>
<td>KINE 370</td>
<td>Biomechanics &amp; Biomechanics Laboratory</td>
<td></td>
</tr>
<tr>
<td>KINE 401</td>
<td>Organization/Administration/Legal Considerations in Physical Education and Sports</td>
<td></td>
</tr>
<tr>
<td>KINE 403</td>
<td>Advanced Strength and Conditioning</td>
<td></td>
</tr>
<tr>
<td>KINE 404</td>
<td>Clinical Exercise Physiology and Advanced Exercise Prescription</td>
<td></td>
</tr>
<tr>
<td>KINE 405</td>
<td>Sports Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>KINE 430</td>
<td>Medical Conditions and Pharmacology in Sports</td>
<td></td>
</tr>
<tr>
<td>KINE 480</td>
<td>Inclusive Physical Activity</td>
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</tr>
<tr>
<td>KINE 487</td>
<td>Structured Research</td>
<td></td>
</tr>
<tr>
<td>KINE 396</td>
<td>Topics</td>
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</tr>
<tr>
<td>KINE 499</td>
<td>Internship</td>
<td>6</td>
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<tr>
<td>KINE 496</td>
<td>Topics</td>
<td></td>
</tr>
<tr>
<td>ENTR 300</td>
<td>Small Business and Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>ENTR 340</td>
<td>Applied Financial Management for Emerging Businesses</td>
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</tr>
</tbody>
</table>

Total Semester Credit Hours 48-49

1 Or higher level CSCI or STAT course.

Program Specific Degree Requirements
(48-49 semester hours, 2.0 cumulative GPA or higher required in major content area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 128</td>
<td>Intermediate Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>KINE 1XX</td>
<td>Activity course</td>
<td>1</td>
</tr>
<tr>
<td>KINE 200</td>
<td>History and Philosophy of Sport and Physical Education</td>
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</tr>
<tr>
<td>KINE 213</td>
<td>Applications of Physical Fitness and Exercise Prescription</td>
<td></td>
</tr>
<tr>
<td>KINE 297</td>
<td>Practicum</td>
<td>2</td>
</tr>
<tr>
<td>KINE 301</td>
<td>Health and Fitness Assessment</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303L</td>
<td>Physiology of Exercise Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>KINE 309</td>
<td>Anatomical Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 310</td>
<td>Methods of Exercise Instruction</td>
<td>3</td>
</tr>
<tr>
<td>KINE 333</td>
<td>Community Health</td>
<td>3</td>
</tr>
<tr>
<td>KINE 401</td>
<td>Organization/Administration/Legal Considerations in Physical Education and Sports</td>
<td></td>
</tr>
<tr>
<td>KINE 403</td>
<td>Advanced Strength and Conditioning</td>
<td></td>
</tr>
<tr>
<td>KINE 404</td>
<td>Clinical Exercise Physiology and Advanced Exercise Prescription</td>
<td></td>
</tr>
<tr>
<td>KINE 405</td>
<td>Sports Nutrition</td>
<td></td>
</tr>
<tr>
<td>KINE 430</td>
<td>Medical Conditions and Pharmacology in Sports</td>
<td></td>
</tr>
<tr>
<td>KINE 480</td>
<td>Inclusive Physical Activity</td>
<td></td>
</tr>
<tr>
<td>KINE 487</td>
<td>Structured Research</td>
<td></td>
</tr>
<tr>
<td>KINE 396</td>
<td>Topics</td>
<td></td>
</tr>
<tr>
<td>KINE 499</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>KINE 496</td>
<td>Topics</td>
<td></td>
</tr>
<tr>
<td>ENTR 300</td>
<td>Small Business and Entrepreneurship</td>
<td></td>
</tr>
<tr>
<td>ENTR 340</td>
<td>Applied Financial Management for Emerging Businesses</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 48-49
Courses with a lecture and lab are counted as one course.

KINE 333/KINE 411 may not be double counted from the list of major requirements.

**General Electives**

(All college level courses appearing on your final transcript, not listed above that will bring your total hours to 120 hours. 20-24 semester hours.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select additional electives</td>
<td>19-23</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>20-24</td>
</tr>
</tbody>
</table>

While the sequencing below culminates in a total of 121-125 semester credit hours, students must complete a minimum of 120 semester credit hours as required for completion of the degree. Plan to complete requirements with varying hour options accordingly.

**First Year**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>KINA 1XX</td>
<td>Activity course</td>
<td>1</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>KINE 200</td>
<td>History and Philosophy of Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>17</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>KINE 213</td>
<td>Applications of Physical Fitness and Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>17</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINA 1XX</td>
<td>Activity course</td>
<td>1</td>
</tr>
<tr>
<td>KINE 250</td>
<td>Lifeguard Training</td>
<td>3</td>
</tr>
<tr>
<td>or KINE 265</td>
<td>or First Aid and CPR/AED for the Health Care Provider</td>
<td>3</td>
</tr>
<tr>
<td>CSCI 110</td>
<td>Beginning Programming 1</td>
<td>3-4</td>
</tr>
<tr>
<td>&amp; 110L</td>
<td>or Probability and Statistics-GTMA1</td>
<td></td>
</tr>
<tr>
<td>or STAT 200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science with Lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>17-18</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>KINE 203</td>
<td>Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>KINE 297</td>
<td>Practicum</td>
<td>2</td>
</tr>
<tr>
<td>KINA 1XX</td>
<td>Activity Course</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Or higher level CSCI orSTAT course.

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
FORENSIC ANTHROPOLOGY

Program Description

Forensic anthropology is the use of anthropological techniques to assist law enforcement, with the focus on the study of the human skeleton. Generally, physical anthropologists concentrate on the recovery and identification of human remains, most often where the victim's remains are in advanced stages of decomposition. There are two main foci—osteology (the study of bones) and taphonomy (the study of how organic matter decays). An osteological analysis of a skeleton assesses the age, sex, ancestry, stature, and unique features of an individual from the skeleton. The study of taphonomy helps to determine a post-mortem interval and what happened to a body from the time of death to the time of discovery. The minor is suited to those majoring in criminal justice or biology with an interest in death investigation.

Contact Information

Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Bachelors/Minors

• Forensic Anthropology (Minor) (p. 417)

Forensic Anthropology (Minor)

Minor: Forensic Anthropology
Program Code: M715

About This Minor . . .

The Forensic Anthropology minor introduces students to the knowledge and skills necessary to employ anthropological techniques in a forensic context. Students become familiar with both field and laboratory techniques used in forensic anthropology. Students in the minor use the Forensic Investigation Research Station, a facility built to study the decomposition of the human body. The Minor especially complements such degree programs as Criminal Justice and Biology. Students with the background in Forensic Anthropology will be better prepared for jobs in areas related to death investigation.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

• A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
• Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
• At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
• At least 25 percent of the classes must be taken at CMU.
• 2.00 cumulative GPA or higher for the courses used for the minor.
• A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.

Program Specific Minor Requirements

(22 semester hours)

Select one of the following options:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOAN 180 &amp; 180L</td>
<td>Survey of Physical Anthropology-GTSS3 and Survey of Physical Anthropology Laboratory-GTSS3</td>
<td>3-4</td>
</tr>
<tr>
<td>FOAN 232 &amp; 232L</td>
<td>Survey of Forensic Science and Survey of Forensic Science Laboratory</td>
<td></td>
</tr>
<tr>
<td>FOAN 280</td>
<td>Crime Scene Processing</td>
<td>2</td>
</tr>
<tr>
<td>FOAN 280L</td>
<td>Crime Scene Processing Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>FOAN 350</td>
<td>Forensic Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>FOAN 480</td>
<td>Professional Issues in Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>FOAN 499</td>
<td>Internship</td>
<td>3-4</td>
</tr>
</tbody>
</table>

Select 6 credits of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOAN 396</td>
<td>Topics</td>
<td>6</td>
</tr>
<tr>
<td>FOAN 475</td>
<td>Human Remains Detection and Recovery for Medico-Legal Investigations</td>
<td></td>
</tr>
<tr>
<td>ARKE 300</td>
<td>Human Evolution</td>
<td></td>
</tr>
<tr>
<td>ARKE 410</td>
<td>Field Methods in Archaeology</td>
<td>2</td>
</tr>
<tr>
<td>ARKE 410L</td>
<td>Field Methods in Archaeology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 217</td>
<td>Forensic Entomology</td>
<td></td>
</tr>
<tr>
<td>BIOL 217L</td>
<td>Forensic Entomology Laboratory</td>
<td></td>
</tr>
<tr>
<td>BIOL 410</td>
<td>Human Osteology</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 410L</td>
<td>Human Osteology Laboratory</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 21-23

1 The number of internship credits will be determined by whether the student takes FOAN 180/FOAN 180L (4cr) or FOAN 232/FOAN 232L (3cr). Either way, the student will take sufficient internship credits to bring the total of required course credits to 22.
2 These courses have prerequisite courses not required for this minor. Refer to course information for more details.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards
a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
FORENSIC INVESTIGATION - CRIMINAL JUSTICE

(See Criminal Justice (p. 293))
FORENSIC INVESTIGATION - PSYCHOLOGY

(See Psychology (p. 630))
FORENSIC SCIENCE

Program Description

Forensic science is a growing professional field throughout the United States. Forensic science is the interface between analytical science and the law. Students with a minor in forensic science can seek employment with CBI and other employers conducting forensic investigations, or they may continue their education by seeking a Master's degree in forensic science at another institution. The minor is best suited for students majoring in biology or chemistry. The minor will enhance students' skills in the molecular biology, analytical chemistry, and criminalistic techniques used in forensic investigations.

Contact Information

Department of Biological Sciences
Wubben Science 232
970.248.1993

Bachelors/Minors

• Forensic Science (Minor) (p. 421)

Forensic Science (Minor)

Minor: Forensic Science
Program Code: M480

About This Minor... 

Forensic science is a growing professional field throughout the United States. Forensic science is the interface between analytical science and the law. Students with a minor in Forensic science can seek employment with CBI and other employers conducting forensic investigations, or they may continue their education by seeking a Master's degree in Forensic science at another institution. The minor is best suited for students majoring in Biology or Chemistry. The minor will enhance students' skills in the molecular biology, analytical chemistry, and criminalistic techniques used in forensic investigations.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

• A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.

• Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.

• At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.

• At least 25 percent of the classes must be taken at CMU.

• 2.00 cumulative GPA or higher for the courses used for the minor.

• A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.

• A student may earn up to five minors with any baccalaureate degree at CMU.

• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.

• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(24-26 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 301</td>
<td>Analytical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 301L</td>
<td>Analytical Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 301</td>
<td>Principles of Genetics</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 301L</td>
<td>Principles of Genetics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 315</td>
<td>Biochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 315L</td>
<td>Biochemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>FOAN 232</td>
<td>Survey of Forensic Science</td>
<td>2</td>
</tr>
<tr>
<td>FOAN 232L</td>
<td>Survey of Forensic Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>FOAN 480</td>
<td>Professional Issues in Forensic Science</td>
<td>3</td>
</tr>
</tbody>
</table>

Complete two of the following options: 6-8

<table>
<thead>
<tr>
<th>Code &amp; Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209 &amp; 209L Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 431 &amp; 431L Instrument Analysis and Instrument Analysis Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 217 &amp; 217L Forensic Entomology and Forensic Entomology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 344 &amp; 344L Forensic Molecular Biology and Forensic Molecular Biology Laboratory</td>
<td>6</td>
</tr>
<tr>
<td>BIOL 410 &amp; 410L Human Osteology and Human Osteology Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>BIOL 442 Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>FOAN 280 &amp; 280L Crime Scene Processing and Crime Scene Processing Laboratory</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 24-26

Lectures and coordinating labs must be taken together for credit towards graduation.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.
Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
GEOGRAPHIC INFORMATION SCIENCE AND TECHNOLOGY

Program Description
Colorado Mesa University offers a certificate and a minor in Geographic Information Science and Technology. The courses are open to all students interested in broadening their knowledge and enhancing job-related skills in a rapidly expanding market of computer-based technology. The multidisciplinary nature of geographic information science and technology allows students from a wide variety of fields to participate in this exciting program.

There is a strong demand for people who are trained in geographic information science and technology and this certificate assists students in securing jobs in this rapidly growing field. GIS/GPS can be used for cartography, business, biology, geology, environmental science, history, archeology and criminal justice.

Contact Information
Department of Physical and Environmental Sciences
Wubben Science 232
970.248.1993

Bachelors/Minors
- Geographic Information Science and Technology (Minor) (p. 424)

Certificates
- Geographic Information Science and Technology (Professional Certificate) (p. 423)

Geographic Information Science and Technology (Professional Certificate)
Award: Professional Certificate
Program of Study: Geographic Information Science and Technology
Program Code: 1770

About This Major . . .
The Physical and Environmental Sciences (PES) Department at Colorado Mesa University offers a certificate in Geographic Information Science and Technology. The courses are open to all students interested in broadening their knowledge and enhancing job-related skills in a rapidly expanding market of computer-based technology. The multidisciplinary nature of the geographic information science and technology allows students from a wide variety of fields to participate in this exciting program.

Geographic Information Science and Technology includes Geographic Information Systems, Global Positioning Systems, and Remote Sensing. A geographic information system (GIS) is a computer-based tool for mapping and analyzing geospatial data. GIS technology is a special case of information systems where the database consists of features, activities, or events that are definable in space as points, lines, or areas. GPS (Global Positioning System) is a satellite system that allows users to collect precise geographic data for use in mapping. Remote sensing refers to any technique whereby information about objects and the environment is obtained from a distance such as aircraft or satellites.

The remote sensing often permits us to greatly expand our spectral view of the earth and “see” the world much more clearly than we can with the unaided eye.

Demand is strong for people who are trained in Geographic Information Science and Technology. This certificate will assist students in securing jobs in this rapidly growing field. GIS/GPS can be used for cartography, business, biology, geology, environmental science, history, archeology, and criminal justice.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

Institutional Certificate Requirements
The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Primarily 300-400 level courses.
- At least fifty percent of the credit hours must be taken at CMU.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(16-18 semester hours, must maintain a cumulative GPA of 2.0 or higher in courses required for the certificate. At least 33 percent of the credit hours required for the certificate must be in courses numbered 300 or above.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIST 305</td>
<td>Cartography for GIS</td>
<td>1-3</td>
</tr>
<tr>
<td>GEOG 131</td>
<td>Introduction to Cartography</td>
<td></td>
</tr>
<tr>
<td>GIST 332</td>
<td>Introduction to Geographic Information Systems</td>
<td>2</td>
</tr>
<tr>
<td>GIST 332L</td>
<td>Introduction to Geographic Information Systems Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GIST 422</td>
<td>GIS Data Management and Editing</td>
<td>2</td>
</tr>
<tr>
<td>GIST 422L</td>
<td>GIS Data Management and Editing Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GIST 432</td>
<td>Spatial Analysis and Modeling in GIS</td>
<td>2</td>
</tr>
<tr>
<td>GIST 432L</td>
<td>Spatial Analysis and Modeling in GIS Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CIVE 212</td>
<td>Introduction to Geomatics</td>
<td>6</td>
</tr>
</tbody>
</table>

Select one of the following courses:
### Geographic Information Science and Technology (Minor)

Minor: Geographic Information Science and Technology

Program Code: M752

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 110</td>
<td>Beginning Programming</td>
</tr>
<tr>
<td>GIST 321</td>
<td>Introduction to Remote Sensing</td>
</tr>
<tr>
<td>GIST 321L</td>
<td>Introduction to Remote Sensing Laboratory</td>
</tr>
<tr>
<td>GIST 375</td>
<td>Global Positioning Systems for GIS</td>
</tr>
<tr>
<td>GIST 375L</td>
<td>Global Positioning Systems for GIS Laboratory</td>
</tr>
<tr>
<td>XXXX 395</td>
<td>Independent Study 1</td>
</tr>
<tr>
<td>XXXX 495</td>
<td>Independent Study 1</td>
</tr>
<tr>
<td>XXXX 497</td>
<td>Independent Study 1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 16-18

1 Must have a GIS focus and be approved by the GIS program advisor.

### About This Minor...

The Physical and Environmental Sciences (PES) Department at Colorado Mesa University offers a minor in Geographic Information Science and Technology. The courses are open to all students interested in broadening their knowledge and enhancing job-related skills in a rapidly expanding market of computer-based technology. The multidisciplinary nature of the Geographic Information science and technology allows students from a wide variety of fields to participate in this exciting program.

Geographic Information Science and Technology includes Geographic Information Systems, Global Positioning Systems, and Remote Sensing. A geographic information system (GIS) is a computer-based tool for mapping and analyzing geospatial data. GIS technology is a subset of information systems where the databases consist of features, activities, or events that are definable in space as points, lines, or areas. GPS (Global Positioning System) is a satellite system that allows users to collect precise geographic data for use in mapping. Remote sensing refers to any technique whereby information about objects and the environment is obtained from a distance, such as from aircraft or satellites. Remote sensing often permits us to greatly expand our spectral view of the earth and “see” the world much more clearly than we can with the unaided eye.

Demand is strong for people who are trained in Geographic Information Science and Technology. This minor will assist students in securing jobs in this rapidly growing field. GIS/GPS can be used for cartography, business, biology, geology, environmental science, history, archeology, and criminal justice.

For more information on what you can do with this major, go to [http://www.coloradomesa.edu/gist/index.html](http://www.coloradomesa.edu/gist/index.html)

### Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.
Program Specific Minor Requirements

(16-18 semester hours)

16-18 semester hours for the Minor in Geographic Information Science and Technology.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GIST 305</td>
<td>Cartography for GIS</td>
<td>1-3</td>
</tr>
<tr>
<td>GEOG 131</td>
<td>Introduction to Cartography</td>
<td></td>
</tr>
<tr>
<td>GIST 332</td>
<td>Introduction to Geographic Information Systems</td>
<td>2</td>
</tr>
<tr>
<td>GIST 332L</td>
<td>Introduction to Geographic Information Systems Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GIST 422</td>
<td>GIS Data Management and Editing</td>
<td>2</td>
</tr>
<tr>
<td>GIST 422L</td>
<td>GIS Data Management and Editing Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GIST 432</td>
<td>Spatial Analysis and Modeling in GIS</td>
<td>2</td>
</tr>
<tr>
<td>GIST 432L</td>
<td>Spatial Analysis and Modeling in GIS Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Select a minimum of six semester hours of the following: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIVE 212</td>
<td>Introduction to Geomatics</td>
</tr>
<tr>
<td>CSCI 110</td>
<td>Beginning Programming</td>
</tr>
<tr>
<td>GIST 321</td>
<td>Introduction to Remote Sensing</td>
</tr>
<tr>
<td>GIST 321L</td>
<td>Introduction to Remote Sensing Laboratory</td>
</tr>
<tr>
<td>GEOG 341</td>
<td>GIS for Social Scientists</td>
</tr>
<tr>
<td>GEOG 341L</td>
<td>GIS for Social Scientists Lab</td>
</tr>
<tr>
<td>GIST 375</td>
<td>Global Positioning Systems for GIS</td>
</tr>
<tr>
<td>GIST 375L</td>
<td>Global Positioning Systems for GIS Laboratory</td>
</tr>
<tr>
<td>XXXX 395</td>
<td>Independent Study ¹</td>
</tr>
<tr>
<td>XXXX 495</td>
<td>Independent Study ¹</td>
</tr>
<tr>
<td>XXXX 497</td>
<td>Independent Study ¹</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 16-18

¹ Must have a GIS focus and be approved by the GIS program advisor.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.
GEOSCIENCES

Program Description

The Department of Physical and Environmental Sciences offers three concentrations and three minors within Geosciences.

Geoscience instruction takes place in a state-of-the-art science complex, which houses several instructional laboratories, a projects room, a computer applications laboratory, a petrology-mineralogy laboratory, rock storage facilities and a sample preparation room.

Most classes have a strong field component so that students experience the diverse geological setting of the Grand Junction area. Equipment available includes a computer-assisted X-ray diffractometer, an X-ray fluorescence spectrometer, research petrographic microscopes, binocular microscopes, a scanning-electron microscope (available through the biology department), GPS units, short-period and long-period seismometers and a magnetometer. Computer facilities include modern PC systems with software basics for communications, database management, word-processing, geographic information systems (GIS) and geostatistics.

Geology

The geology concentration is designed for students who (1) desire a strong liberal arts education with emphasis on the earth sciences, (2) wish to pursue a graduate degree in geology, or (3) desire a professional or technical geoscience career. Recent graduates are attending graduate programs at major universities or have entered the work force as geological technicians or professional geologists.

Environmental Geology

The environmental geology concentration is designed for students who (1) desire a strong liberal arts education with emphasis on environmental issues within the earth sciences, (2) wish to pursue a graduate degree in environmental geology, or (3) desire a professional or technical career. The environmental geology concentration has the same basic framework as the geology concentration, but has a stronger emphasis on geologic hazards, ground-water and surface-water hydrology, low-temperature geochemistry, biological systems and environmental science. Recent graduates are attending graduate programs at major universities or have entered the work force as geological technicians or professional geologists.

Geology—Secondary Education

The geology secondary education licensure concentration is structured for graduates to pursue teaching careers at the middle or high school level. The basic curriculum includes all of the major topics within a traditional geology program while also incorporating teacher education courses required for licensure by the state of Colorado.

A minimum of 75 credit hours of essential learning and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply to the Center for Teacher Education secondary licensure program. Please contact the Center for Teacher Education for further information on admissions criteria.

Geology Minor

The geology minor is designed for students who wish to take additional basic geology courses in support of their degree aspirations in other areas. A geology minor can be a valuable complement to majors in the other science disciplines and archaeology.

Watershed Science Minor

Many geology students complete the Watershed Science (p. 737) minor, which prepares them to serve the regional need for scientists with a strong background in water-related issues.

Geographic Information Systems and Technology Minor

Many geoscientists use geographic information systems in their work. Students can learn this technology by pursuing the minor or certificate in Geographic Information Systems and Technology (p. 423).

Contact Information

Department of Physical and Environmental Sciences
Wubben Science 232
970.248.1993

Associates

• Geology, Liberal Arts (AS) (p. 436)

Bachelors/Minors

• Education: Secondary Education, Geosciences (BS) (p. 433)
• Environmental Geology, Geosciences (BS) (p. 426)
• Geology (Minor) (p. 438)
• Geology, Geosciences (BS) (p. 429)
• Watershed Science (Minor) (p. 439)

Environmental Geology, Geosciences (BS)

Degree: Bachelor of Science
Major: Geosciences
Concentration: Environmental Geology
Program Major Code: 3473

About This Major . . .

The Bachelor of Science degree with a major in Geosciences and a concentration in Environmental Geology is designed for students who (1) desire a strong liberal arts education with emphasis on environmental issues within the earth sciences, (2) wish to pursue a graduate degree in environmental geology, or (3) desire a professional or technical geoscience career. The Environmental Geology option has the same basic framework as the Geology concentration with a stronger emphasis on geologic hazards, ground-water and surface-water hydrology, biological systems, and environmental science. Recent graduates are attending graduate programs at major universities or have entered the work force as geological technicians or professional geologists.

Most classes have a strong field component so that students benefit from the diverse geological setting of the Grand Junction area. Equipment available includes hydrologic research equipment such as flow meters, stream tables, surveying equipment, and GPS units. Students engage in a capstone research project/thesis during their senior year that involves independent research and the completion of a professional report and presentation. This capstone experience develops...
professional skills and provides students with a portfolio of their work for future employers or graduate schools.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Articulate the fundamental knowledge base and ideas of the major fields of geoscience. (Specialized Knowledge)
2. Collect and interpret geoscience field data. (Applied Learning/Critical Thinking)
3. Collect and interpret geoscience laboratory data. (Applied Learning/Critical Thinking)
4. Use technology (e.g. computer software) for evaluating quantitative geoscience data. (Quantitative Fluency)
5. Write an effective report on a geoscience study. (Communication Fluency)
6. Give an effective oral presentation on a geoscience study. (Communication Fluency)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>English</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Mathematics</strong></td>
<td></td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>History</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Social and Behavioral Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Fine Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>31</td>
</tr>
</tbody>
</table>

1. Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2. This is a 5 semester credit hour course. 3 credits apply to the Essential Learning Requirements and 2 credits apply to Foundation Courses.
3. We recommend selecting one of the following sets of courses, with BIOL 105/BIOL 105L, PHYS 132/PHYS 132L, or CHEM 132/CHEM 132L as the best choices for students interested in attending graduate school: BIOL 105/BIOL 105L, PHYS 112/PHYS 112L, PHYS 132/PHYS 132L, or CHEM 132/CHEM 132L.

Of the Total Semester Credit Hours, 1 credit applies to electives and 31 credits apply to Essential Learning requirements. See footnotes for more details.

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Essential Learning Capstone</strong></td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
</tbody>
</table>
Environmental Geology, Geosciences (BS)

ESSL 200 Essential Speech 1

Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(15 semester hours, must earn a grade of "C" or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 131</td>
<td>General Chemistry I-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 131L</td>
<td>General Chemistry Laboratory I-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>PHYS 111 &amp; 111L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>PHYS 131 &amp; 131L</td>
<td>Fundamental Mechanics-GTSC1 and Fundamental Mechanics Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GTMA1</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 15

1 Either PHYS 111/PHYS 111L or PHYS 131/PHYS 131L may be taken for credit, but not both.

Program Specific Degree Requirements
(58 semester hours, must earn a grade of "C" or better in each course)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 250</td>
<td>Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 355</td>
<td>Basic Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 415</td>
<td>Introduction to Ground Water</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 415L</td>
<td>Introduction to Ground Water Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 49

Required Geology Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 111 &amp; 111L</td>
<td>Principles of Physical Geology-GTSC1 and Principles of Physical Geology Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 113 &amp; 113L</td>
<td>Field-Based Introduction to Physical Geology-GTSC1 and Field-Based Introduction to Physical Geology Laboratory-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 112</td>
<td>Principles of Historical Geology-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 112L</td>
<td>Principles of Historical Geology Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 202</td>
<td>Introduction to Field Studies</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 204</td>
<td>Computer Applications in Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 301 &amp; 301L</td>
<td>Structural Geology and Structural Geology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 331</td>
<td>Crystallography and Mineralogy</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 331L</td>
<td>Crystallography and Mineralogy Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 402</td>
<td>Applications of Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 402L</td>
<td>Applications of Geomorphology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 444</td>
<td>Sedimentology and Stratigraphy</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 444L</td>
<td>Sedimentology and Stratigraphy Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 480</td>
<td>Summer Field Camp</td>
<td>6</td>
</tr>
<tr>
<td>GEOL 490</td>
<td>Seminar</td>
<td>3</td>
</tr>
</tbody>
</table>

Restricted Electives 2

Select 9 semester hours from the following list: 2

- GEOL 325 Introduction to Engineering Geology
- GEOL 351 Applied Geochemistry
- GEOL 359 Survey of Energy-Related Natural Resources
- GEOL 361 Survey of Mineral-Related Natural Resources
- GEOL 370 Renewable Energy
- GEOL 394 Natural Resources of the West
- GEOL 404 Geophysics & 404L and Geophysics Laboratory
- GEOL 443 Field-Based Depositional Systems & 443L and Field-Based Depositional Systems Laboratory
- GEOL 455 River Dynamics & 455L and River Dynamics Laboratory
- GEOL 497 Structured Research
- GIST 332 Introduction to Geographic Information Systems & 332L and Introduction to Geographic Information Systems Laboratory
- ENVS 312 Soil Science and Sustainability & 312L and Soil Science and Sustainability Laboratory
- POLS 488 Environmental Politics and Policy
- CHEM 132 General Chemistry II-GTSC1 & 132L and General Chemistry Laboratory II-GTSC1
- MATH 152 Calculus II
- STAT 311 Statistical Methods
- PHYS 112 General Physics-GTSC1 & 112L and General Physics Laboratory-GTSC1
- PHYS 132 Electromagnetism and Optics-GTSC1 & 132L and Electromagnetism and Optics Laboratory-GTSC1

Total Semester Credit Hours 9

1 Either GEOL 111/GEOL 111L or GEOL 113/GEOL 113L may be taken for credit, but not both.
2 Either PHYS 112/PHYS 112L or PHYS 132/PHYS 132L may be taken for credit, but not both. Eight hours of Restricted and General Electives must be upper division.

General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 10 semester hours; additional hours of upper division may be needed. 8 hours of Restricted and General Electives must be upper division.
### Code Title Semester Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select electives</td>
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<td>10</td>
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<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

### Course Title Semester Credit Hours

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GTMA1</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>GEOL 111</td>
<td>Principles of Physical Geology-GTSC1</td>
</tr>
<tr>
<td>&amp; 111L</td>
<td>and Principles of Physical Geology Laboratory-GTSC1</td>
</tr>
<tr>
<td>GEOL 113</td>
<td>Field-Based Introduction to Physical Geology-GTSC1</td>
</tr>
<tr>
<td>&amp; 113L</td>
<td>and Field-Based Introduction to Physical Geology Laboratory-GTSC1</td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td></td>
</tr>
<tr>
<td>Semester Credit Hours</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 112</td>
</tr>
<tr>
<td>&amp; 112L</td>
</tr>
<tr>
<td>ENGL 112</td>
</tr>
<tr>
<td>Essential Learning - History</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
</tr>
<tr>
<td>KINE 100</td>
</tr>
<tr>
<td>Semester Credit Hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Second Year</th>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 202</td>
<td>Introduction to Field Studies</td>
</tr>
<tr>
<td>GEOL 250</td>
<td>Environmental Geology</td>
</tr>
<tr>
<td>CHEM 131</td>
<td>General Chemistry I-GTSC1</td>
</tr>
<tr>
<td>&amp; 131L</td>
<td>and General Chemistry Laboratory I-GTSC1</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics-GTSC1</td>
</tr>
<tr>
<td>&amp; 111L</td>
<td>and General Physics Laboratory-GTSC1</td>
</tr>
<tr>
<td>PHYS 131</td>
<td>Fundamental Mechanics-GTSC1</td>
</tr>
<tr>
<td>&amp; 131L</td>
<td>and Fundamental Mechanics Laboratory-GTSC1</td>
</tr>
<tr>
<td>Semester Credit Hours</td>
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</tr>
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</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>GEOL 204</td>
</tr>
<tr>
<td>STAT 200</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
</tr>
<tr>
<td>Essential Learning - Natural Science</td>
</tr>
<tr>
<td>ESSL 290</td>
</tr>
<tr>
<td>ESSL 200</td>
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<table>
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<tr>
<th>Third Year</th>
<th>Fall Semester</th>
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<tbody>
<tr>
<td>GEOL 301</td>
<td>Structural Geology</td>
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<tr>
<td>&amp; 301L</td>
<td>and Structural Geology Laboratory</td>
</tr>
<tr>
<td>GEOL 331</td>
<td>Crystallography and Mineralogy</td>
</tr>
<tr>
<td>&amp; 331L</td>
<td>and Crystallography and Mineralogy Laboratory</td>
</tr>
<tr>
<td>GEOL 355</td>
<td>Basic Hydrology</td>
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<td>Essential Learning - Natural Science with Lab</td>
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<tr>
<td>Semester Credit Hours</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>Essential Learning - Fine Arts</td>
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<tr>
<td>Restricted Electives</td>
</tr>
<tr>
<td>General Electives</td>
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<tr>
<td>Semester Credit Hours</td>
</tr>
</tbody>
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### Fourth Year | Fall Semester |
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>GEOL 402</td>
<td>Applications of Geomorphology</td>
</tr>
<tr>
<td>&amp; 402L</td>
<td>and Applications of Geomorphology Laboratory</td>
</tr>
<tr>
<td>Restricted Electives</td>
<td></td>
</tr>
<tr>
<td>General Electives</td>
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</tr>
<tr>
<td>Semester Credit Hours</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>GEOL 415</td>
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<tr>
<td>&amp; 415L</td>
</tr>
<tr>
<td>KINA Activity</td>
</tr>
<tr>
<td>GEOL 444</td>
</tr>
<tr>
<td>&amp; 444L</td>
</tr>
<tr>
<td>GEOL 490</td>
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<td>Semester Credit Hours</td>
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<table>
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<tr>
<th>Summer Semester</th>
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<tbody>
<tr>
<td>GEOL 480</td>
</tr>
<tr>
<td>Semester Credit Hours</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

### Geology, Geosciences (BS)

Degree: Bachelor of Science
Major: Geosciences  
Concentration: Geology  
Program Code: 3472

### About This Major . . .

The Bachelor of Science degree with a major in Geosciences and a concentration in Geology is designed for students who (1) desire a strong liberal arts education with emphasis on the earth sciences, (2) wish to pursue a graduate degree in geology, or (3) desire a professional or technical geoscience career. Recent graduates are attending graduate programs at major universities or have entered the work force as geological technicians or professional geologists. Instruction takes place in a state-of-the-art science complex, which houses several instructional laboratories, a projects room, computer-applications laboratory, petrology-mineralogy laboratory, rock-storage facilities, and a sample preparation room. Most classes have a strong field component so that students benefit from the diverse geological setting of the Grand Junction area. Equipment includes research petrographic microscopes, binocular microscopes, x-ray diffractometer, x-ray fluorescence, GPS units, local seismic network, and a magnetometer. Computer facilities include PC systems with software for communications, database management, word-processing, geographical information systems (GIS), and geostatistics. Students engage in a capstone research project/thesis during their senior year that involves independent research and the completion of a professional report and presentation. Students develop professional skills and complete a portfolio of their work for future employers or graduate schools.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Articulate the fundamental knowledge base and ideas of the major fields of geoscience. (Specialized Knowledge)
2. Collect and interpret geoscience field data. (Applied Learning/Critical Thinking)
3. Collect and interpret geoscience laboratory data. (Applied Learning/Critical Thinking)
4. Use technology (e.g. computer software) for evaluating quantitative geoscience data. (Quantitative Fluency)
5. Write an effective report on a geoscience study. (Communication Fluency)
6. Give an effective oral presentation on a geoscience study. (Communication Fluency)

### Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>History</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Humanities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social and Behavioral Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Fine Arts</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Natural Sciences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>31</td>
</tr>
</tbody>
</table>

1 Must receive a grade of “C” or better and must be complete by the time the student has 60 semester hours.
This is a 5 semester credit hour course. 3 credits apply to the Essential Learning Requirements and 2 credits apply to Foundation Courses.

We recommend selecting one of the following sets of courses, with BIOL 105/BIOL 105L, PHYS 132/PHYS 132L, or CHEM 132/CHEM 132L as the best choices for students interested in attending graduate school: BIOL 105/BIOL 105L, PHYS 112/PHYS 112L, PHYS 132/PHYS 132L, or CHEM 132/CHEM 132L.

Of the Total Semester Credit Hours, 1 credit applies to electives and 31 credits apply to Essential Learning requirements. See footnotes for more details.

### Other Lower Division Requirements

#### Wellness Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
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</tbody>
</table>

#### Essential Learning Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Total Semester Credit Hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Foundation Courses

(15 semester hours, must earn a grade of "C" or better in each course)

#### Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 131</td>
<td>General Chemistry I-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 131L</td>
<td>General Chemistry Laboratory I-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one of the following: (1)</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 111 &amp; 111L</td>
<td>General Physics-GTSC1 and General Physics Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 131 &amp; 131L</td>
<td>Fundamental Mechanics-GTSC1 and Fundamental Mechanics Laboratory-GTSC1</td>
<td>2</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>2</td>
</tr>
</tbody>
</table>

#### Total Semester Credit Hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

1 Either PHYS 111/PHYS 111L or PHYS 131/PHYS 131L may be taken for credit, but not both.

### Program Specific Degree Requirements

(56 semester hours, must earn a grade of "C" or better in each course)

#### Core Courses

Select one of the following sets of courses: 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 111 &amp; 111L</td>
<td>Principles of Physical Geology-GTSC1 and Principles of Physical Geology Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 113 &amp; 113L</td>
<td>Field-Based Introduction to Physical Geology-GTSC1 and Field-Based Introduction to Physical Geology Laboratory-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 112</td>
<td>Principles of Historical Geology-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 112L</td>
<td>Principles of Historical Geology Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 202</td>
<td>Introduction to Field Studies</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 204</td>
<td>Computer Applications in Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 301</td>
<td>Structural Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 301L</td>
<td>Structural Geology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 331</td>
<td>Crystallography and Mineralogy</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 331L</td>
<td>Crystallography and Mineralogy Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 402</td>
<td>Applications of Geomorphology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 402L</td>
<td>Applications of Geomorphology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 444</td>
<td>Sedimentology and Stratigraphy</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 444L</td>
<td>Sedimentology and Stratigraphy Laboratory</td>
<td>1</td>
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<tr>
<td>GEOL 480</td>
<td>Summer Field Camp</td>
<td>6</td>
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<tr>
<td>GEOL 490</td>
<td>Seminar</td>
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#### Required Geology Courses

<table>
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<tbody>
<tr>
<td>GEOL 340</td>
<td>Igneous and Metamorphic Petrology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 340L</td>
<td>Igneous and Metamorphic Petrology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 404</td>
<td>Geophysics</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 404L</td>
<td>Geophysics Laboratory</td>
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#### Total Semester Credit Hours

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td></td>
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</table>

#### Restricted Electives

Select 9 semester hours of the following: 2

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 250</td>
<td>Environmental Geology</td>
<td>9</td>
</tr>
<tr>
<td>GEOL 325</td>
<td>Introduction to Engineering Geology</td>
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</tr>
<tr>
<td>GEOL 351</td>
<td>Applied Geochemistry</td>
<td></td>
</tr>
<tr>
<td>GEOL 355</td>
<td>Basic Hydrology</td>
<td></td>
</tr>
<tr>
<td>GEOL 359</td>
<td>Survey of Energy-Related Natural Resources</td>
<td></td>
</tr>
<tr>
<td>GEOL 361</td>
<td>Survey of Mineral-Related Natural Resources</td>
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</tr>
<tr>
<td>GEOL 370</td>
<td>Renewable Energy</td>
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<tr>
<td>GEOL 394</td>
<td>Natural Resources of the West</td>
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<tr>
<td>GEOL 411 &amp; 411L</td>
<td>Paleontology and Paleontology Laboratory</td>
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<tr>
<td>GEOL 415 &amp; 415L</td>
<td>Introduction to Ground Water and Introduction to Ground Water Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 443 &amp; 443L</td>
<td>Field-Based Depositional Systems and Field-Based Depositional Systems Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 455 &amp; 455L</td>
<td>River Dynamics and River Dynamics Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

2 Either PHYS 111/PHYS 111L or PHYS 131/PHYS 131L may be taken for credit, but not both.
GEOL 497  Structured Research

GIST 332  Introduction to Geographic Information Systems
and Introduction to Geographic Information Systems Laboratory

ENVS 312  Soil Science and Sustainability
& 312L  and Soil Science and Sustainability Laboratory

CHEM 132  General Chemistry II-GTSC1
& 132L  and General Chemistry Laboratory II-GTSC1

MATH 152  Calculus II

STAT 311  Statistical Methods

PHYS 112  General Physics-GTSC1
& 112L  and General Physics Laboratory-GTSC1

PHYS 132  Electromagnetism and Optics-GTSC1
& 132L  and Electromagnetism and Optics Laboratory-GTSC1

Total Semester Credit Hours 9

1  Either GEOL 111/GEOL 111L or GEOL 113/GEOL 113L may be taken
for credit, but not both.

2  Either PHYS 112/PHYS 112L or PHYS 132/PHYS 132L may be taken
for credit, but not both. Seven hours of Restricted and General
Electives must be upper division.

**General Electives**

All college level courses appearing on your final transcript, not listed
above that will bring your total semester hours to 120 hours. 12 semester
hours; additional hours of upper division may be needed. Seven hours of
Restricted and General Electives must be upper division.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select electives</td>
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<td>Total Semester Credit Hours</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>First Year</td>
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<tr>
<td>Fall Semester</td>
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<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GTMA1</td>
<td>5</td>
</tr>
<tr>
<td>Select one of the following:</td>
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<td>4</td>
</tr>
<tr>
<td>GEOL 111</td>
<td>Principles of Physical Geology-GTSC1</td>
<td></td>
</tr>
<tr>
<td>&amp; 111L</td>
<td>and Principles of Physical Geology Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>GEOL 113</td>
<td>Field-Based Introduction to Physical Geology-GTSC1</td>
<td></td>
</tr>
<tr>
<td>&amp; 113L</td>
<td>and Field-Based Introduction to Physical Geology Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td></td>
</tr>
<tr>
<td>Second Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOL 202</td>
<td>Introduction to Field Studies</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>CHEM 131</td>
<td>General Chemistry GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 131L</td>
<td>General Chemistry Laboratory GTSC1</td>
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<tr>
<td>Select one of the following:</td>
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</tr>
<tr>
<td>PHYS 111</td>
<td>General Physics-GTSC1</td>
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</tr>
<tr>
<td>&amp; 111L</td>
<td>and General Physics Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>PHYS 131</td>
<td>Fundamental Mechanics-GTSC1</td>
<td></td>
</tr>
<tr>
<td>&amp; 131L</td>
<td>and Fundamental Mechanics Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td></td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GEOL 402</td>
<td>Applications of Geomorphology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 402L</td>
<td>Applications of Geomorphology Laboratory</td>
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<td>Restricted Electives</td>
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<td>Third Year</td>
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<tr>
<td>Fall Semester</td>
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<tr>
<td>GEOL 301</td>
<td>Structural Geology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 301L</td>
<td>and Structural Geology Laboratory</td>
<td></td>
</tr>
<tr>
<td>GEOL 331</td>
<td>Crystallography and Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 331L</td>
<td>and Crystallography and Mineralogy Laboratory</td>
<td></td>
</tr>
<tr>
<td>General Electives</td>
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<tr>
<td>Spring Semester</td>
<td></td>
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<tr>
<td>GEOL 340</td>
<td>Igneous and Metamorphic Petrology</td>
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<td>&amp; 340L</td>
<td>and Igneous and Metamorphic Petrology Laboratory</td>
<td></td>
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<tr>
<td>Essential Learning - Fine Arts</td>
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<tr>
<td>General Electives</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
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<tr>
<td>Fourth Year</td>
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<tr>
<td>Fall Semester</td>
<td></td>
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<td>Geophysics</td>
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<td>&amp; 404L</td>
<td>and Geophysics Laboratory</td>
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<tr>
<td>KINA Activity</td>
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<td>GEOL 444</td>
<td>Sedimentology and Stratigraphy</td>
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<td>and Sedimentology and Stratigraphy Laboratory</td>
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<td>GEOL 490</td>
<td>Seminar</td>
<td>3</td>
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<td>Summer Semester</td>
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<td>GEOL 480</td>
<td>Summer Field Camp</td>
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<tr>
<td></td>
<td>Semester Credit Hours</td>
<td></td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for
informational purposes to help determine what courses and associated
requirements are needed to earn a degree. The suggested course
sequencing outlines how students could finish degree requirements.
Some courses are critical to complete in specific semesters, while others
may be moved around. Meeting with an academic advisor is essential
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Graduation Process
Students must complete the following in the first two months of the semester prior to completing their degree requirements:

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Education: Secondary Education, Geosciences (BS)
Degree: Bachelor of Science
Major: Geosciences
Concentration: Secondary Education
Program Code: 3474

About This Major . . .
The Geosciences secondary licensure degree is structured for graduates to pursue teaching careers at the middle or high school level. The basic curriculum includes all of the major topics within a traditional geology program while also incorporating teacher education courses required for licensure by the state of Colorado. The degree plan includes basic chemistry, physics, and biology. Instruction takes place in a state of the art science complex on campus which houses several instructional laboratories, projects rooms, a computer applications lab, petrology-mineralogy lab, and rock storage facilities. Most classes include a strong field component, allowing students to take advantage of the diverse geological setting of the Grand Junction area. Students have access to department equipment that includes research petrographic microscopes, binocular microscopes, a computer-assisted x-ray diffractometer, scanning electron microscopes, GPS units, short- and long-period seismometers, and a magnetometer.

The secondary licensure program provides teacher education candidates with broad content knowledge in science and prepares them as teachers for grades 7 through 12. A minimum of 75 credit hours of Essential Learning and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education secondary licensure program. Please see the Teacher Education Admission Packet for further information on admissions criteria. EDUC 115, What It Means to be an Educator, and EDUC 215, Teaching as a Profession, must be taken before applying to the program.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Articulate the fundamental knowledge base and ideas of the major fields of geoscience. (Specialized Knowledge)
2. Collect and interpret geoscience field data. (Applied Learning/Critical Thinking)
3. Collect and interpret geoscience laboratory data. (Applied Learning/Critical Thinking)
4. Use technology (e.g. computer software) for evaluating quantitative geoscience data. (Quantitative Fluency)
5. Write an effective report on a geoscience study. (Communication Fluency)
6. Give an effective oral presentation on a geoscience study. (Communication Fluency)
7. Instruct K-12 students based on self-written learning plans to address individual learning and developmental patterns in the Physical Sciences. (Specialized Knowledge)
8. Design a safe and supportive learning environment for elementary and secondary education students. (Applied Learning)
9. Apply content knowledge while working with learners to access information in real world settings assuring learner mastery of the content. (Applied Learning)
10. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication. (Critical Thinking/Communication Fluency)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Specific to this program:**
• 126 semester hours required for the BS in Geosciences, Secondary Education.
• 2.80 cumulative GPA or higher in all CMU coursework.

**Essential Learning Requirements**
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH</td>
<td>College Algebra-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>ESSL</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

**Foundation Courses**
(17 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM</td>
<td>General Chemistry I-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS</td>
<td>Elementary Astronomy-GTSC2</td>
<td>3</td>
</tr>
<tr>
<td>PHYS</td>
<td>General Physics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS</td>
<td>General Physics Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>MATH</td>
<td>Trigonometry</td>
<td>3</td>
</tr>
</tbody>
</table>

**Program Specific Degree Requirements**
(40 semester hours, must pass all courses with a grade of “C” or higher with a 2.8 accumulative GPA or higher)

• All other coursework toward the degree must be successfully completed prior to the internship.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL</td>
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<td>3</td>
</tr>
<tr>
<td>or GEOL</td>
<td>Oceanography-GTSC2</td>
<td></td>
</tr>
<tr>
<td>GEOL</td>
<td>Principles of Physical Geology-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>GEOL</td>
<td>Principles of Physical Geology Laboratory-GTSC1</td>
<td>1</td>
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<tr>
<td>GEOL</td>
<td>Principles of Historical Geology-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>GEOL</td>
<td>Principles of Historical Geology Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Semester Credit Hours</td>
</tr>
<tr>
<td>----------</td>
<td>--------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>GEOL 202</td>
<td>Introduction to Field Studies</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 204</td>
<td>Computer Applications in Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 250</td>
<td>Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 301</td>
<td>Structural Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 301L</td>
<td>Structural Geology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 331</td>
<td>Crystallography and Mineralogy</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 331L</td>
<td>Crystallography and Mineralogy Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 340</td>
<td>Igneous and Metamorphic Petrology</td>
<td>3</td>
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<tr>
<td>GEOL 340L</td>
<td>Igneous and Metamorphic Petrology Laboratory</td>
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<tr>
<td>GEOL 402</td>
<td>Applications of Geomorphology</td>
<td>3</td>
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<tr>
<td>GEOL 402L</td>
<td>Applications of Geomorphology Laboratory</td>
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<tr>
<td>GEOL 444</td>
<td>Sedimentology and Stratigraphy</td>
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<tr>
<td>GEOL 444L</td>
<td>Sedimentology and Stratigraphy Laboratory</td>
<td>1</td>
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</tbody>
</table>

Total Semester Credit Hours: 40

**General Electives**

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 3 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
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</tbody>
</table>

Total Semester Credit Hours: 3

**Secondary Education Requirements**

(29 semester hours, must earn a grade of "B" or better in each course.)

Program Requirements: ENGL 111, ENGL 112, PSYC 233, EDUC 115 and EDUC 215 (all with a grade of B or better) and formal acceptance to the Teacher Education Program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator (8 field experience hours)</td>
<td>1</td>
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<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession (12 field experience hours)</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 342</td>
<td>Pedagogy and Assessment: Secondary and K-12 (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 343</td>
<td>Teaching to Diversity (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 442</td>
<td>Integrating Literacy Across the Curriculum: Secondary and K-12 Art (60 field experience hours)</td>
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</tr>
<tr>
<td>EDUC 475</td>
<td>Classroom Management for K-12 Educators</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 497</td>
<td>Content Methodology Practicum (80 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 497D</td>
<td>Methods of Teaching Secondary Science</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 499G</td>
<td>Teaching Internship and Colloquia: Secondary (600 field experience hours)</td>
<td>12</td>
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</table>

Total Semester Credit Hours: 29

1 This course is only offered in the fall semester. It may be taken with either the 300-level or 400-level EDUC courses but must be taken before the student teaching semester.

All EDUC prefix courses listed above must be completed with a grade of B or better to progress through the program sequence.

Students must take the PRAXIS II exam in the content area prior to commencing the internship. Also, ALL other coursework toward the degree must be successfully completed prior to the internship.

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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<tr>
<td>Fall Semester</td>
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<tr>
<td>GEOL 103</td>
<td>Weather and Climate-GTSC2</td>
<td>3</td>
</tr>
<tr>
<td>or GEOL 104</td>
<td>Oceanography-GTSC2</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 111</td>
<td>Principles of Physical Geology-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 111L</td>
<td>Principles of Physical Geology Laboratory-GTSC1</td>
<td>4</td>
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<tr>
<td>ENGL 111</td>
<td>English Composition-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
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<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
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Total Semester Credit Hours: 15

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<thead>
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<th>Spring Semester</th>
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<tbody>
<tr>
<td>GEOL 112 &amp; 112L</td>
<td>Principles of Historical Geology-GTSC1</td>
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<tr>
<td>ENGL 112</td>
<td>English Composition-GTSC2</td>
<td>3</td>
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<tr>
<td>MATH 130</td>
<td>Trigonometry</td>
<td>3</td>
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<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
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<tr>
<td>GEOG 103</td>
<td>World Regional Geography-GTSC2</td>
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Total Semester Credit Hours: 16

<table>
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<th>Second Year</th>
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<tbody>
<tr>
<td>Fall Semester</td>
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<tr>
<td>GEOL 202</td>
<td>Introduction to Field Studies</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 250</td>
<td>Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 131</td>
<td>General Chemistry-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 131L</td>
<td>General Chemistry Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>PHYS 111 &amp; 111L</td>
<td>General Physics-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 111L</td>
<td>General Physics Laboratory-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
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</table>

Total Semester Credit Hours: 17

<table>
<thead>
<tr>
<th>Spring Semester</th>
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</thead>
<tbody>
<tr>
<td>GEOL 204</td>
<td>Computer Applications in Geology</td>
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</tr>
<tr>
<td>BIOL 105</td>
<td>Attributes of Living Systems-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 105L</td>
<td>Attributes of Living Systems Laboratory-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>Elementary Astronomy-GTSC2</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Natural Science</td>
<td></td>
<td>3</td>
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<tr>
<td>KINA Activity</td>
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Total Semester Credit Hours: 17

<table>
<thead>
<tr>
<th>Third Year</th>
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<tbody>
<tr>
<td>Fall Semester</td>
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<td></td>
</tr>
<tr>
<td>GEOL 301 &amp; 301L</td>
<td>Structural Geology</td>
<td>4</td>
</tr>
<tr>
<td>&amp; Structural Geology Laboratory</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>GEOL 331 &amp; 331L</td>
<td>Crystallography and Mineralogy</td>
<td>4</td>
</tr>
<tr>
<td>&amp; Crystallography and Mineralogy Laboratory</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 16
### Spring Semester
- **GEOG 340** IGNEOUS AND METAMORPHIC PETROLOGY 4
- **& 340L** IGNEOUS AND METAMORPHIC PETROLOGY LABORATORY 4
- **GEOG 444** SEDIMENTOLOGY AND STRATIGRAPHY 4
- **& 444L** SEDIMENTOLOGY AND STRATIGRAPHY LABORATORY 4
- **EDUC 342** PEDAGOGY AND ASSESSMENT: SECONDARY AND K-12 3
- **EDUC 343** TEACHING TO DIVERSITY 3
- **General Elective** 3
- **Total Semester Credit Hours** 17

### Fall Semester
- **GEOG 402** APPLICATIONS OF GEOMORPHOLOGY 4
- **& 402L** APPLICATIONS OF GEOMORPHOLOGY LABORATORY 4
- **EDUC 442** INTEGRATING LITERACY ACROSS THE CURRICULUM: SECONDARY AND K-12 ART 3
- **EDUC 475** CLASSROOM MANAGEMENT FOR K-12 EDUCATORS 1
- **EDUC 497** CONTENT METHODOLOGY PRACTICUM 3
- **EDUC 497D** METHODS OF TEACHING SECONDARY SCIENCE 2
- **Total Semester Credit Hours** 16

### Spring Semester
- **EDUC 499G** TEACHING INTERNSHIP AND COLLOQUIA: SECONDARY 12
- **General Elective** 3
- **Total Semester Credit Hours** 12

### Total Semester Credit Hours 126

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**Advising Process and DegreeWorks**

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**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

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- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
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If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

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**Geology, Liberal Arts (AS)**

Degree: Associate of Science
Major: Liberal Arts
Emphasis: Geology
Program Code: 2431

**About This Major . . .**

The Associate of Science (A.S.) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The A.S. is the appropriate choice for students who will take upper division coursework in mathematics, biological sciences, and physical sciences. The degree program includes the Colorado Statewide Essential Learning Core and meets the lower division Essential Learning requirements at most public institutions in Colorado. A number of emphases are available within the A.S. degree. Students choosing one of these emphases will take courses in a discipline in addition to the Essential Learning core.

An Associate of Science (A.S.) degree with a geology emphasis is offered through the Physical and Environmental Sciences Department. This degree prepares students for employment as geological technicians in government and industry, or for entrance into the geology baccalaureate program at Colorado Mesa University or other four-year institutions. The curriculum includes basic courses in geology as well as Essential Learning courses. All of the geology courses place emphasis on the spectacular geologic features in western Colorado and eastern Utah.

For more information on what you can do with this major, go to [http://www.coloradomesa.edu/career/whatmajor.html](http://www.coloradomesa.edu/career/whatmajor.html).

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Articulate the fundamental knowledge base and ideas of the major fields of geoscience. (Specialized Knowledge)
2. Collect and interpret geoscience field data. (Applied Learning)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU or WCCC Associate of Science (AS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours total.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade of “C” or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado’s guaranteed transfer program.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 15 semester credit hours for an associate of science degree. A maximum of 6 of the 15 credits may be for cooperative education, internships, and practica.

• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.

• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.

• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Humanities course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Fine Arts course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3 7 semester hours, one course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wellness Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements
(27 semester hours, must earn a "C" or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Complete one of the following course pairs: 1</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>GEOL 111 &amp; 111L</td>
<td>Principles of Physical Geology-GTSC1 and Principles of Physical Geology Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>GEOL 113 &amp; 113L</td>
<td>Field-Based Introduction to Physical Geology-GTSC1 and Field-Based Introduction to Physical Geology Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>GEOL 112</td>
<td>Principles of Historical Geology-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 112L</td>
<td>Principles of Historical Geology Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>GEOL 250</td>
<td>Environmental Geology</td>
<td>3</td>
</tr>
<tr>
<td>Required Geology Specialization Courses 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td>GEOG 131</td>
<td>Introduction to Cartography</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 additional semester hours</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>27</td>
</tr>
</tbody>
</table>

1 Either GEOL 111/GEOL 111L or GEOL 113/GEOL 113L may be taken for credit, but not both.

2 To be selected in consultation with student’s advisor.

First Year
Fall Semester
Select one of the following: 4
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 111 &amp; 111L</td>
<td>Principles of Physical Geology-GTSC1 and Principles of Physical Geology Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>GEOL 113 &amp; 113L</td>
<td>Field-Based Introduction to Physical Geology-GTSC1 and Field-Based Introduction to Physical Geology Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1 (or higher)</td>
<td>4</td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

Spring Semester
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 112</td>
<td>Principles of Historical Geology-GTSC1</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 112L</td>
<td>Principles of Historical Geology Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Natural Science with lab</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>
If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Geology (Minor)

Minor: Geology
Program Code: M420

About This Minor...

The Geology Minor is designed for students who wish to take additional basic geology courses in support of their degree aspirations in other areas. A total of 21 geology credit hours are required. Most classes have a strong field component so that students can enjoy the diverse geological setting of the Grand Junction area. Laboratory work takes place in a state-of-the-art science complex.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(21 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 111</td>
<td>Principles of Physical Geology-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 111L</td>
<td>and Principles of Physical Geology Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>GEOL 113</td>
<td>Field-Based Introduction to Physical Geology-GTSC1</td>
<td></td>
</tr>
<tr>
<td>&amp; 113L</td>
<td>and Field-Based Introduction to Physical Geology Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>GEOL 112</td>
<td>Principles of Historical Geology-GTSC1</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Students that intend to continue with Colorado Mesa University should take ESSL 290 and ESSL 200 during the final semester of their Associate of Science work.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.
About This Minor...

The minor in watershed science is an interdisciplinary program designed to serve the regional need for scientists with a strong background in water-related issues (e.g., Bureau of Land Management, U.S. Geological Survey, U.S. Forest Service, U.S. Fish and Wildlife Service, and the Colorado Division of Wildlife). Some government agencies, such as the U.S. Forest Service, are shifting their management organization to focus on watersheds, and this minor supports needs in this area.

The minor complements majors in physical and environmental science and biology by providing students in these fields with certification of focused coursework. Combined with the relevant B.S., plus additional calculus and physics courses, the minor satisfies the federal government's requirements for qualification as a hydrologist. The proximity of Colorado Mesa to the Colorado, Gunnison, and Green Rivers, the drainages of the Colorado National Monument, and the high arroyos create an ideal location for the study of watershed science.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(18 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 355</td>
<td>Basic Hydrology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 455</td>
<td>River Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 455L</td>
<td>River Dynamics Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 331</td>
<td>Water Quality</td>
<td>3</td>
</tr>
<tr>
<td>ENVS 331L</td>
<td>Water Quality Laboratory</td>
<td>3</td>
</tr>
</tbody>
</table>

Watershed Science (Minor)

Minor: Watershed Science
Choose seven semester hours (minimum) from the list below:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 414 &amp; 414L</td>
<td>Freshwater Ecology and Freshwater Ecology Laboratory</td>
</tr>
<tr>
<td>CHEM 300</td>
<td>Environmental Chemistry</td>
</tr>
<tr>
<td>ENVS 312 &amp; 312L</td>
<td>Soil Science and Sustainability and Soil Science and Sustainability Laboratory</td>
</tr>
<tr>
<td>ENVS 433</td>
<td>Restoration of Aquatic Systems</td>
</tr>
<tr>
<td>GEOL 394</td>
<td>Natural Resources of the West</td>
</tr>
<tr>
<td>GEOL 402 &amp; 402L</td>
<td>Applications of Geomorphology and Applications of Geomorphology Laboratory</td>
</tr>
<tr>
<td>GEOL 415 &amp; 415L</td>
<td>Introduction to Ground Water and Introduction to Ground Water Laboratory</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 18

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.

**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
GERONTOLOGY

Program Description
The Gerontology program focuses on the psychological and social impact of aging. It provides theoretical and practical experiences of human services, policies and programs related to the aging population and the aging brain for the student to gain access to entry level positions in the field. The program provides a variety of subjects in community activities, cogitative behavior of the elderly, Alzheimer’s and end of life care. Graduates of this program may find careers in social services, community services for the elderly, housing authorities, nursing homes, private home care programs and other public agencies.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
- Gerontology Specialist (AAS) (p. 444)

Certificates
- Activity Assistant, Gerontology (Technical Certificate) (p. 441)
- Behavioral and Cognitive Care, Gerontology (Technical Certificate) (p. 442)
- End of Life Care, Gerontology (Technical Certificate) (p. 443)

Activity Assistant, Gerontology (Technical Certificate)
Award: Technical Certificate
Program of Study: Gerontology
Specialization: Activity Assistant
Program Code: 1164

About This Program . . .
The program is for individuals who wish to develop careers in the field of aging, those already employed or active in gerontology or related fields who wish to enhance their career paths, and those seeking challenging and meaningful career changes in response to new opportunities created by an aging society.

Institutional Degree Requirements
The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than "C" will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Degree Requirements
(19 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 110</td>
<td>Introduction to Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 125</td>
<td>Community Resources for Older Adults</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 165</td>
<td>Activity Director Training</td>
<td>2</td>
</tr>
<tr>
<td>GRNT 176</td>
<td>Cognitive Activity Design</td>
<td>2</td>
</tr>
<tr>
<td>GRNT 181</td>
<td>Exploring the Field of Aging</td>
<td>2</td>
</tr>
<tr>
<td>GRNT 299</td>
<td>Internship</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>19</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the
student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Behavioral and Cognitive Care, Gerontology (Technical Certificate)**

Award: Technical Certificate

Program of Study: Gerontology

Specialization: Behavioral and Cognitive Care

Program Code: 1165

**About This Program . . .**

The program is for individuals who wish to develop careers in the field of aging, those already employed or active in gerontology or related fields who wish to enhance their career paths, and those seeking challenging and meaningful career changes in response to new opportunities created by an aging society.

**Institutional Degree Requirements**

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Degree Requirements**

(24 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRNT 110</td>
<td>Introduction to Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 175</td>
<td>The Aging Mind</td>
<td>2</td>
</tr>
<tr>
<td>GRNT 176</td>
<td>Cognitive Activity Design</td>
<td>2</td>
</tr>
<tr>
<td>GRNT 177</td>
<td>Arts and Cognitive Activity Design</td>
<td>1</td>
</tr>
<tr>
<td>GRNT 181</td>
<td>Exploring the Field of Aging</td>
<td>2</td>
</tr>
<tr>
<td>GRNT 235</td>
<td>Introduction to Dementia Care</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 236</td>
<td>Dementia Care Practices</td>
<td>1</td>
</tr>
<tr>
<td>GRNT 240</td>
<td>Care and Service Coordination</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 247</td>
<td>Applied Legal and Policy Issues in Aging</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 294</td>
<td>Gerontology Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>GRNT 299</td>
<td>Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 24

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
</table>
| First Year
| Fall Semester                                   |
| GRNT 110 | Introduction to Gerontology                   | 3                     |
| GRNT 175 | The Aging Mind                                | 2                     |
| GRNT 176 | Cognitive Activity Design                     | 2                     |
| GRNT 177 | Arts and Cognitive Activity Design            | 1                     |
| GRNT 181 | Exploring the Field of Aging                  | 2                     |

Semester Credit Hours: 10

| Spring Semester                                 |
| GRNT 235 | Introduction to Dementia Care                 | 3                     |
| GRNT 236 | Dementia Care Practices                        | 1                     |
| GRNT 240 | Care and Service Coordination                  | 3                     |
| GRNT 247 | Applied Legal and Policy Issues in Aging       | 3                     |
| GRNT 294 | Gerontology Professional Seminar              | 1                     |
| GRNT 299 | Internship                                    | 3                     |

Semester Credit Hours: 14

Total Semester Credit Hours: 24
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

End of Life Care, Gerontology (Technical Certificate)

Award: Technical Certificate
Program of Study: Gerontology
Specialization: End of Life Care
Program Code: 1166

About This Program . . .

The program is for individuals who wish to develop careers in the field of aging, those already employed or active in gerontology or related fields who wish to enhance their career paths, and those seeking challenging and meaningful career changes in response to new opportunities created by an aging society.

Institutional Degree Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Degree Requirements

(21 semester hours)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRNT 110</td>
<td>Introduction to Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 131</td>
<td>Hospice Care</td>
<td>1</td>
</tr>
<tr>
<td>GRNT 207</td>
<td>Ethics and Aging</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 233</td>
<td>Supporting End of Life</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 237</td>
<td>End of Life Therapies/Practices</td>
<td>1</td>
</tr>
<tr>
<td>GRNT 240</td>
<td>Care and Service Coordination</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 247</td>
<td>Applied Legal and Policy Issues in Aging</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 294</td>
<td>Gerontology Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>GRNT 299</td>
<td>Internship</td>
<td>3</td>
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</table>

Total Semester Credit Hours: 21

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>GRNT 110</td>
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<td>3</td>
</tr>
<tr>
<td>GRNT 131</td>
<td>Hospice Care</td>
<td>1</td>
</tr>
<tr>
<td>GRNT 207</td>
<td>Ethics and Aging</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 233</td>
<td>Supporting End of Life</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 237</td>
<td>End of Life Therapies/Practices</td>
<td>1</td>
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</table>

Semester Credit Hours: 11

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>GRNT 240</td>
<td>Care and Service Coordination</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 247</td>
<td>Applied Legal and Policy Issues in Aging</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 294</td>
<td>Gerontology Professional Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Gerontology Specialist (AAS)

Degree: Associate of Applied Science
Major: Gerontology Specialist
Program Code: 1305

About This Major...

The Gerontology program is for individuals who wish to develop careers in the field of aging, those already employed in gerontology or related fields who wish to enhance their career paths, and those seeking challenging and meaningful career changes in response to new opportunities created by an aging society.

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(16 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td></td>
</tr>
</tbody>
</table>

Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 107</td>
<td>Career Math (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Essential Learning Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 101</td>
<td>General Human Biology-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 101L</td>
<td>General Human Biology Laboratory-GTSC1</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 16

Other Lower Division Requirements

(2 semester hours)
Wellness Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one Activity course

Total Semester Credit Hours 2

Program Specific Degree Requirements
(42 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRNT 110</td>
<td>Introduction to Gerontology</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 125</td>
<td>Community Resources for Older Adults</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 181</td>
<td>Exploring the Field of Aging</td>
<td>2</td>
</tr>
<tr>
<td>GRNT 220</td>
<td>Law and Ethics for Health Professions</td>
<td>2</td>
</tr>
<tr>
<td>GRNT 245</td>
<td>Health and Aging</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 247</td>
<td>Applied Legal and Policy Issues in Aging</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 250</td>
<td>Death: Cross-Cultural Perspectives</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 260</td>
<td>Technology for Aging Services</td>
<td>2</td>
</tr>
<tr>
<td>GRNT 270</td>
<td>Neurology of Memory Loss</td>
<td>2</td>
</tr>
<tr>
<td>GRNT 280</td>
<td>Management of Senior Living Communities</td>
<td>3</td>
</tr>
<tr>
<td>GRNT 294</td>
<td>Gerontology Professional Seminar</td>
<td>1</td>
</tr>
<tr>
<td>GRNT 299</td>
<td>Internship</td>
<td>3</td>
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</tbody>
</table>

Select 12 semester hours from the following: 12

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>GRNT 131</td>
<td>Hospice Care</td>
</tr>
<tr>
<td>GRNT 165</td>
<td>Activity Director Training</td>
</tr>
<tr>
<td>GRNT 175</td>
<td>The Aging Mind</td>
</tr>
<tr>
<td>GRNT 176</td>
<td>Cognitive Activity Design</td>
</tr>
<tr>
<td>GRNT 177</td>
<td>Arts and Cognitive Activity Design</td>
</tr>
<tr>
<td>GRNT 207</td>
<td>Ethics and Aging</td>
</tr>
<tr>
<td>GRNT 233</td>
<td>Supporting End of Life</td>
</tr>
<tr>
<td>GRNT 235</td>
<td>Introduction to Dementia Care</td>
</tr>
<tr>
<td>GRNT 236</td>
<td>Dementia Care Practices</td>
</tr>
<tr>
<td>GRNT 237</td>
<td>End of Life Therapies/Practices</td>
</tr>
<tr>
<td>GRNT 240</td>
<td>Care and Service Coordination</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 42

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.
If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
PROGRAM DESCRIPTION

The Bachelor of Fine Arts degree with a Graphic Design concentration focuses on design as a professional craft and as a vehicle for communication and connecting with society. Students learn to see design as a visual language and force for cultural change within our world by giving them the tools to enhance the visual experience of the public. Course work includes color theory, drawing, traditional illustration, digital illustration, composition, typography, letterpress, identity design, web design and UX Design. All course work focuses on the best practices for designers to meet the needs of the profession. The degree concludes with a portfolio development course and the successful degree candidate is prepared to enter professions within graphic design including advertising, marketing, packaging design, identity design, illustration, digital design and a myriad of related fields.

The graphic design minor acquaints students with some of the core elements related to the study and profession of graphic design. Courses will consist of both academic lecture and practical studio. This minor provides students an opportunity to integrate personal creativity with any specified major degree. A background in graphic design can promote a variety of professional opportunities including areas of applied design, public relations, business graphics, product design, marketing and advertising.

For a program sheet that describes the requirements, see a faculty advisor or go to coloradomesa.edu/academics.

CONTACT INFORMATION

Department of Art and Design
Fine Arts 200
970.248.1833

BACHELOR'S/ MINORS

- Graphic Design (Minor) (p. 450)
- Visual Design, Graphic Design (BFA) (p. 447)

VISUAL DESIGN, GRAPHIC DESIGN (BFA)

Degree: Bachelor of Fine Arts
Major: Graphic Design
Concentration: Visual Design
Program Code: 3274

ABOUT THIS MAJOR . . .

The Graphic Design–Visual Design concentration focuses on current and professional industry standards within graphic design. Our degree is illustration-based and combines traditional hands-on media with the digital. The program, like the professional world is a fast-paced environment that mimics real-world design studios. Students will learn traditional layout design, composition, screenprinting, drawing, graphic design art history, CNC routing all as it applies to design. These areas are all combined with conceptual skills to make graduates in the area marketable. Entry in the program is contingent upon the successful completion of a portfolio review and exam during the sophomore year. A portfolio capstone course prepares students upon graduation for employment with a portfolio designed to gain employment. The program boasts two Graphic Design computer labs each furnished with Apple computers and the latest graphic design application software. Students can be a part of a community of student designers involved in a graphic design activities and field trips locally, nationally and abroad.

Entering students are encouraged to pay close attention to course sequencing and consult their advisor in order to complete the degree in four years. The successful Graphic Design degree candidate is prepared to enter professions within graphic design including advertising design, web design, package design, illustration, marketing and a myriad of related fields.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Interpret and apply formal elements and principles of design. (Specialized Knowledge)
2. Demonstrate application of tools, materials, techniques, and proper use and care for equipment through quality craftsmanship. (Applied Learning)
3. Generate individual response through concept and theory beyond formal elements to create personal content. (Communication Fluency)
4. Communicate clearly regarding the critical analysis of art and design both historical and contemporary. (Critical Thinking/ Communication Fluency)
5. Design and publish a professional portfolio that meets current industry standards. (Applied Learning)
6. Demonstrate technical, aesthetic, and conceptual decisions based on the application of the design process. (Specialized Knowledge)

INSTITUTIONAL DEGREE REQUIREMENTS

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

**Program Specific Degree Requirements**
(51 semester hours. To continue in the program and eventually graduate as graphic design majors a student must earn, within no more than three attempts, at least a grade of “B” in the major requirements.)

• No more than 6 semester hours of independent study courses can be used toward the degree.
• KINA Activity courses can NOT be used to fulfill general elective credit requirements.
• In an effort to meet industry standards, Macintosh computers are used exclusively in all computer-based ARTG courses. Majors are strongly advised to consider purchasing a Macintosh and related print and web publication software for personal use.
• ARTG 300-level courses and ARTG 400-level courses may be taken upon acceptance into the Graphic Design Program.
• Admission in the program after the sophomore year will be contingent upon the student’s satisfying the following requirements:
  • Completion of Graphic Design Admission Application Form.
  • Completion of ARTE 101 Two-Dimensional Design, ARTE 102 Three-Dimensional Design, ARTG 215 Graphic Design I, ARTG 221 Graphic Design II, and ARTG 222 Illustration I with a grade of B or A.
  • A grade of B or A in all coursework in the major.
  • Successful completion of the Graphic Design entrance exam with a minimum score of 80%.
  • Portfolio Review comprised of Graphic Design work that meets the established Portfolio Review Criteria.
  • Transfer students must pass the Portfolio Review and entrance exam to be formally accepted into the Graphic Design Program.

**Foundation Courses**
(15 semester hours, must pass all courses with a grade of “B” or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTE 101</td>
<td>Two-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 102</td>
<td>Three-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 118</td>
<td>History of Art, Prehistory to Renaissance-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 119</td>
<td>History of Art, Renaissance to Present-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 151</td>
<td>Foundation Drawing I</td>
<td>3</td>
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</tbody>
</table>

Total Semester Credit Hours 15

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ARTH 324</td>
<td>History of Graphic Design</td>
<td>3</td>
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</table>

**Graphic Design Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTG 122</td>
<td>Design It!</td>
<td>3</td>
</tr>
<tr>
<td>ARTG 215</td>
<td>Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ARTG 221</td>
<td>Graphic Design II</td>
<td>3</td>
</tr>
<tr>
<td>ARTG 222</td>
<td>Illustration I</td>
<td>3</td>
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</table>

<table>
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<th>Semester Credit Hours</th>
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<tbody>
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<td>Two-Dimensional Design-GTAH1</td>
<td>3</td>
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<td>ARTE 102</td>
<td>Three-Dimensional Design-GTAH1</td>
<td>3</td>
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<tr>
<td>ARTE 118</td>
<td>History of Art, Prehistory to Renaissance-GTAH1</td>
<td>3</td>
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<tr>
<td>ARTE 119</td>
<td>History of Art, Renaissance to Present-GTAH1</td>
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</tr>
<tr>
<td>ARTS 151</td>
<td>Foundation Drawing I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 15

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.

2 One course must include a lab.
ARTG 301  Digital Illustration  3
ARTG 320  Letterforms and Typography  3
ARTG 321  Advanced Typography  3
ARTG 333  Illustration II  3
ARTG 337  Illustration III  3
ARTG 338  Advertising Design I  3
ARTS 360  Sketchbook  3
ARTG 401  Digital Painting  3
ARTG 405  Website Design  3
ARTG 406  UX Design  3
ARTG 450  Identity Design  3
ARTG 493  Portfolio Development  3

Total Semester Credit Hours  51

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. Excludes KINA activity courses. 17 semester hours, additional hours of upper division may be needed.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>ARTS 151</td>
<td>Foundation Drawing I</td>
<td>3</td>
</tr>
<tr>
<td>ARTG 122</td>
<td>Design It!</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 101</td>
<td>Two-Dimensional Design-GTAH1</td>
<td>3</td>
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</tbody>
</table>

First Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
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<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
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</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
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<tr>
<td>ARTG 301</td>
<td>Digital Illustration</td>
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<tr>
<td>ARTG 320</td>
<td>Letterforms and Typography</td>
<td>3</td>
</tr>
<tr>
<td>ARTG 333</td>
<td>Illustration II</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 119</td>
<td>History of Art, Renaissance to Present-GTAH1</td>
<td>3</td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>ARTG 406</td>
<td>UX Design</td>
<td>3</td>
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<tr>
<td>ARTG 450</td>
<td>Identity Design</td>
<td>3</td>
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<tr>
<td>Electives (2 courses)</td>
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Second Year

Fall Semester

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<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ARTG 215</td>
<td>Graphic Design II</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 118</td>
<td>History of Art, Prehistory to Renaissance-GTAH1</td>
<td>3</td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>ARTG 301</td>
<td>Digital Illustration</td>
<td>3</td>
</tr>
<tr>
<td>ARTG 320</td>
<td>Letterforms and Typography</td>
<td>3</td>
</tr>
<tr>
<td>ARTG 333</td>
<td>Illustration II</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 119</td>
<td>History of Art, Renaissance to Present-GTAH1</td>
<td>3</td>
</tr>
</tbody>
</table>

Third Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTS 360</td>
<td>Sketchbook</td>
<td>3</td>
</tr>
<tr>
<td>ARTG 321</td>
<td>Advanced Typography</td>
<td>3</td>
</tr>
<tr>
<td>ARTH 324</td>
<td>History of Graphic Design</td>
<td>3</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.
If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Graphic Design (Minor)

Minor: Graphic Design
Program Code: M201

About This Minor . . .

The Graphic Design Minor will acquaint students with some of the core elements related to the study and profession of Graphic Design. Courses will consist of both academic lecture and practical studio-based media. This minor provides students an opportunity to integrate personal creativity with any specified major degree. A background in Graphic Design can promote a variety of professional opportunities including areas of applied design, public relations, business graphics, product design, marketing, museum work and/or advertising.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(24 semester hours, must maintain 3.00 cumulative GPA or higher.)

- In an effort to meet industry standards, Macintosh computers are used exclusively in all computer-based ARTG courses. Majors are strongly advised to consider purchasing a Macintosh and related publication software for personal use.
- Graphic Design majors are required to complete a formal Portfolio Review before being admitted to 300 level Graphic Design courses.

### Lower Division Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTE 101</td>
<td>Two-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTE 102</td>
<td>Three-Dimensional Design-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>ARTG 215</td>
<td>Graphic Design I</td>
<td>3</td>
</tr>
<tr>
<td>ARTG 221</td>
<td>Graphic Design II</td>
<td>3</td>
</tr>
<tr>
<td>ARTG 222</td>
<td>Illustration I</td>
<td>3</td>
</tr>
</tbody>
</table>

### Upper Division Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARTG 301</td>
<td>Digital Illustration</td>
<td>3</td>
</tr>
<tr>
<td>ARTG 320</td>
<td>Letterforms and Typography</td>
<td>3</td>
</tr>
<tr>
<td>ARTG 321</td>
<td>Advanced Typography</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 24

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
HEALTH INFORMATION TECHNOLOGY SYSTEMS

Program Description
This multi-disciplinary certificate prepares students in foundations/introduction to healthcare informatics, database management systems, and information systems security and privacy. Offered at the undergraduate and graduate level, the certificate combines coursework in business, health sciences, and nursing.

Contact Information
Department of Business
Dominguez Hall 301
970.248.1778

-or-

Department of Health Sciences
Health Sciences 110
970.248.1398

Certificates
• Health Information Technology Systems (Professional Certificate) (p. 452)

Graduate
• Health Information Technology Systems (Graduate Certificate) (p. 451)

Health Information Technology Systems (Graduate Certificate)
Award: Graduate Certificate
Program of Study: Health Information Technology Systems
Program Code: 7603

About This Major . . .
The Graduate Certificate in Health Information Technology Systems prepares health care professionals to support the collection, management, retrieval, exchange, and/or analysis of information in electronic form, in health care and public health organizations. This role functions at an operational level to provide comprehensive management of health care information and its secure exchange between healthcare consumers and providers. These specialists participate in processing, managing and transforming data from information to knowledge. This specialist works within the health care environment interacting with both health care professionals and IT specialists. The informatics specialty maintains the big picture of health care informatics while providing an in-depth perspective of nursing informatics. The ANA Scope and Standards of Nursing Informatics as well as other frameworks such as American Medical Informatics Association’s definition of biomedical informatics and their current work in the development of biomedical informatics competencies and the International Medical Informatics Association’s work on informatics competencies. The following areas of knowledge will be taught in the certificate program: Foundations/Introduction to Healthcare Informatics; Database Management Systems; Information Systems Security and Privacy; Information Systems Life Cycle; Semantic Representation.

Institutional Graduate Degree Requirements
The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Graduate certificates consist of a minimum of 5 credit hours.
• Master’s degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
• All credits in a graduate program must be minimally at the 500-level.
• At least fifty percent of the credit hours must be taken at CMU.
• Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
• Students may not apply coursework with a grade lower than a "B" toward graduation requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Requirements
(15 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>HSCI 501</td>
<td>Advanced Health Informatics I - Data Analysis</td>
<td>1</td>
</tr>
<tr>
<td>HSCI 506</td>
<td>Advanced Health Informatics II: Project Design and Implementation</td>
<td>2</td>
</tr>
<tr>
<td>NURS 502</td>
<td>Health Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>NURS 505</td>
<td>Quality Assessment and Improvement in Health Care Settings</td>
<td>3</td>
</tr>
<tr>
<td>CISB 500</td>
<td>Management of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>CISB 505</td>
<td>Advanced Project Management</td>
<td>3</td>
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<td>Total Semester Credit Hours</td>
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</table>

Course Title Semester Credit Hours

<table>
<thead>
<tr>
<th>First Year</th>
<th>Summer Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 501</td>
<td>Advanced Health Informatics I - Data Analysis</td>
</tr>
<tr>
<td>NURS 502</td>
<td>Health Information Systems</td>
</tr>
<tr>
<td>CISB 505</td>
<td>Advanced Project Management</td>
</tr>
<tr>
<td>Semester Credit Hours</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 502</td>
</tr>
<tr>
<td>CISB 505</td>
</tr>
<tr>
<td>Semester Credit Hours</td>
</tr>
</tbody>
</table>
Avising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Health Information Technology Systems (Professional Certificate)

Award: Professional Certificate
Program of Study: Health Information Technology Systems
Program Code: 1604

About This Major . . .

The Professional Certificate in Health Information Technology Systems prepares health care professionals to support the collection, management, retrieval, exchange, and/or analysis of information in electronic form, in health care and public health organizations. This role functions at an operational level to provide comprehensive management of health care information and its secure exchange between healthcare consumers and providers. These specialists participate in processing, managing and transforming data from information to knowledge. This specialist works within the health care environment interacting with both health care professionals and IT specialists. The informatics specialty maintains the big picture of health care informatics while providing an in-depth perspective of nursing informatics. The ANA Scope and Standards of Nursing Informatics as well as other frameworks such as American Medical Informatics Association’s definition of biomedical informatics and their current work in the development of biomedical informatics competencies and the International Medical Informatics Association’s work on informatics competencies. The following areas of knowledge will be taught in the certificate program: Foundations/Introduction to Healthcare Informatics; Database Management Systems; Information Systems Security and Privacy; Information Systems Life Cycle; Semantic Representation.

All CMU professional certificate recipients are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to the campus-wide student learning outcomes, recipients will be able to:

1. Explores the use of information systems in health care and nursing practice.
2. Reviews the development of an overall framework for analyzing the use of information by organizations along with examples of different types of information systems.
3. Explore selected health informatics projects in clinical settings
4. Evaluate outcomes-based quality assessment and improvement methods in health care
5. Process techniques and tools of project management in the health care setting.
6. Explore the principles of evidence-based medicine in bringing informatics to the bedside.

Institutional Certificate Requirements

The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Primarily 300-400 level courses.
- At least fifty percent of the credit hours must be taken at CMU.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with
your advisor or academic department to determine which catalog year and program requirements you should follow.

- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Program Specific Certificate Requirements

(16 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISB 410</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>CISB 470</td>
<td>Management of Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>HSCI 401</td>
<td>Health Informatics I - Data Analysis</td>
<td>2</td>
</tr>
<tr>
<td>HSCI 406</td>
<td>Health Informatics II: Project Design &amp; Implementation</td>
<td>2</td>
</tr>
<tr>
<td>NURS 408</td>
<td>Health Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>NURS 409</td>
<td>Quality Assessment and Improvement in Health Care Settings</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 16

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Summer Semester</td>
<td></td>
</tr>
<tr>
<td>HSCI 401</td>
<td>Health Informatics I - Data Analysis</td>
<td>2</td>
</tr>
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<td></td>
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<tr>
<td></td>
<td>Fall Semester</td>
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</tr>
<tr>
<td>NURS 408</td>
<td>Health Information Systems</td>
<td>3</td>
</tr>
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<td>CISB 410</td>
<td>Project Management</td>
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<td></td>
<td>Spring Semester J-Term</td>
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<tr>
<td>CISB 470</td>
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<td>HSCI 406</td>
<td>Health Informatics II: Project Design &amp; Implementation</td>
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<td>NURS 409</td>
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<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>16</td>
</tr>
</tbody>
</table>

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

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HISTORY

Program Description

The study of history prepares the student for understanding present society and culture through a study of the past. The history program familiarizes students with the great historical civilizations and issues that have shaped our present world. History teaches students how to critically analyze information and make a compelling argument; skills that everyone needs to be successful in all their endeavors. Internships are available through museums, historical societies and public agencies. History graduates pursue careers in teaching and public history, as well as private employment, and have also been very successful in gaining entrance to graduate study and law school.

The Center for Teacher Education offers a comprehensive program of study that leads to licensure in Colorado. Faculty offer one-on-one guidance for course selection, field placements, student teaching and employment. Students accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout western Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings.

The secondary licensure program provides teacher education candidates with broad content knowledge in history and prepares them as teachers for grades 7 through 12. A minimum of 75 credit hours of essential learning and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education secondary licensure program. Please see the Teacher Education Admission Packet for further information on admissions criteria. EDUC 115 and EDUC 215 must be taken before applying to the program.

Contact Information

Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Bachelors/Minors

• Education: Secondary Education, History (BA) (p. 457)
• History (BA) (p. 454)
• History (Minor) (p. 460)
• Public History (Minor) (p. 461)

History (BA)

Degree: Bachelor of Arts
Major: History
Program Code: 3716

About This Major . . .

The study of history prepares the student for understanding present society and culture through a study of the past. The history program familiarizes students with the great historical civilizations and issues that have shaped our present world. History teaches students how to critically analyze information and make a compelling argument; skills that everyone needs to be successful in all their endeavors. Internships are available through museums, historical societies and public agencies. CMU history graduates pursue careers in teaching and public history, as well as private employment, and have also been very successful in gaining entrance to graduate study and law school.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Formulate the relationships of cause and effect (Specialized Knowledge/Applied Learning);
2. Assess the importance of historical context (Specialized Knowledge/Applied Learning);
3. Critically analyze an argument based on secondary sources (Critical Thinking);
4. Critically analyze primary sources (Critical Thinking);
5. Formulate a clear and persuasive argument based on evidence (Communication Fluency);
6. Construct a clear thesis with strong topic sentences (Communication Fluency).

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.
Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>HIST 131 United States History-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Wellness Requirement</td>
<td>KINE 100 Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity Course</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Essential Learning Capstone</td>
<td>ESSL 290 Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 31

1 Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

Program Specific Degree Requirements

(48 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>Western Civilizations-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 102</td>
<td>Western Civilizations-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 132</td>
<td>United States History-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>Introduction to Historical Research</td>
<td>3</td>
</tr>
<tr>
<td>HIST 394</td>
<td>Junior Seminar in Historiography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 404</td>
<td>Senior Seminar in Historical Research</td>
<td>3</td>
</tr>
<tr>
<td>European History</td>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>HIST 300</td>
<td>History of England to 1660</td>
<td></td>
</tr>
<tr>
<td>HIST 301</td>
<td>History of Modern Britain</td>
<td></td>
</tr>
<tr>
<td>HIST 302</td>
<td>History of Modern France</td>
<td></td>
</tr>
<tr>
<td>HIST 303</td>
<td>History of Modern Germany</td>
<td></td>
</tr>
<tr>
<td>HIST 330</td>
<td>History of 19th Century Europe</td>
<td></td>
</tr>
<tr>
<td>HIST 331</td>
<td>The 20th Century</td>
<td></td>
</tr>
<tr>
<td>HIST 350</td>
<td>Renaissance and Reformation</td>
<td></td>
</tr>
<tr>
<td>HIST 360</td>
<td>Medieval Europe</td>
<td></td>
</tr>
<tr>
<td>HIST 400</td>
<td>The Soviet Union and Eastern Europe</td>
<td></td>
</tr>
<tr>
<td>HIST 430</td>
<td>The Ancient Mediterranean World</td>
<td></td>
</tr>
<tr>
<td>HIST 445</td>
<td>The Holocaust</td>
<td></td>
</tr>
<tr>
<td>HIST 450</td>
<td>European History and Film</td>
<td></td>
</tr>
<tr>
<td>Latin American Civilization</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The International History of the Cold War</td>
<td></td>
<td></td>
</tr>
<tr>
<td>History of the British Empire</td>
<td></td>
<td></td>
</tr>
<tr>
<td>History Of the Middle East</td>
<td></td>
<td></td>
</tr>
<tr>
<td>East Asia and the Modern World</td>
<td></td>
<td></td>
</tr>
<tr>
<td>History of the African Continent</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Old South</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Early American Republic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Age of Industry in America</td>
<td></td>
<td></td>
</tr>
<tr>
<td>History of Immigration, Race, and Ethnicity in America</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The United States in the 1950’s and 1960’s</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 29 semester hours, 4-7 hours of upper division will be needed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
<td>29</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>29</td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.
Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Education: Secondary Education, History (BA)

Degree: Bachelor of Arts
Major: History
Concentration: Secondary Education
Program Code: 3704

About This Major...

The Center for Teacher Education offers a comprehensive program of study that leads to licensure in Colorado. Our professors are experienced, knowledgeable, accessible, and dedicated to the improvement of public education. At Colorado Mesa University, we pride ourselves on the personal touch. Faculty offer one-on-one guidance for course selection, field placements, student teaching, and employment. Our mission is to develop Educators as Innovators; we are always looking to improve the quality of learning in our programs and K-12 schools.

As a student, you will gradually accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout western Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings.

The secondary licensure program provides teacher education candidates with broad content knowledge in history and prepares them as teachers for grades 7 through 12. A minimum of 75 credit hours of Essential Learning and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education secondary licensure program. Please see the Teacher Education Admission Packet for further information on admissions criteria. EDUC 115 and EDUC 215 must be taken before applying to the program.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Formulate the relationships of cause and effect (Specialized Knowledge/Applied Learning);
2. Assess the importance of historical context (Specialized Knowledge/Applied Learning);
3. Critically analyze an argument based on secondary sources (Critical Thinking);
4. Critically analyze primary sources (Critical Thinking);
5. Formulate a clear and persuasive argument based on evidence (Communication Fluency);
6. Construct a clear thesis with strong topic sentences (Communication Fluency);
7. Instruct students based on self-written learning plans to address individual learning and developmental patterns. (Specialized Knowledge)
8. Design a safe and supportive learning environment for elementary and secondary education students. (Applied Learning)
9. Apply content knowledge while working with learners to access information in real world settings assuring learner mastery of the content. (Specialized Knowledge)
10. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication. (Critical Thinking/Communication Fluency)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
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- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
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• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:

• 2.80 cumulative GPA or higher in all CMU coursework.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 131</td>
<td>United States History-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Humanities course 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3 (Must receive grade of “B” or higher)</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Fine Arts course 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Natural Sciences 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course with lab 4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours 31</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Must receive a grade of “B” or better and must be completed by the time the student has 60 semester hours.

2 Must receive a grade of “C” or better, must be completed by the time the student has 60 semester hours.

3 One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wellness Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Essential Learning Capstone 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
</tbody>
</table>

ESSL 200 Essential Speech 1

Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

6 semester hours, must earn a grade of “C” or higher in each course.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two consecutive courses in the same foreign language 1</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours 6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 FLAS 114 and FLAS 115 will not fulfill this requirement.

Program Specific Degree Requirements

(77 semester hours, must maintain a 2.8 cumulative GPA or higher for coursework in this area.)

• All other coursework toward the degree must be successfully completed prior to the internship.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Science Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ANTH 202</td>
<td>Introduction to Anthropology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 103</td>
<td>World Regional Geography-GTSS2</td>
<td>3</td>
</tr>
<tr>
<td>POLS 101</td>
<td>American Government-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>or POLS 261</td>
<td>Comparative Politics-GTSS1</td>
<td></td>
</tr>
<tr>
<td>History Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 101</td>
<td>Western Civilizations-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 102</td>
<td>Western Civilizations-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 132</td>
<td>United States History-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>Introduction to Historical Research</td>
<td>3</td>
</tr>
<tr>
<td>HIST 404</td>
<td>Senior Seminar in Historical Research</td>
<td>3</td>
</tr>
<tr>
<td>History Electives</td>
<td></td>
<td></td>
</tr>
<tr>
<td>European History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select two of the following: 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HIST 300</td>
<td>History of England to 1660</td>
<td></td>
</tr>
<tr>
<td>HIST 301</td>
<td>History of Modern Britain</td>
<td></td>
</tr>
<tr>
<td>HIST 302</td>
<td>History of Modern France</td>
<td></td>
</tr>
<tr>
<td>HIST 303</td>
<td>History of Modern Germany</td>
<td></td>
</tr>
<tr>
<td>HIST 330</td>
<td>History of 19th Century Europe</td>
<td></td>
</tr>
<tr>
<td>HIST 331</td>
<td>The 20th Century</td>
<td></td>
</tr>
<tr>
<td>HIST 350</td>
<td>Renaissance and Reformation</td>
<td></td>
</tr>
<tr>
<td>HIST 360</td>
<td>Medieval Europe</td>
<td></td>
</tr>
<tr>
<td>HIST 400</td>
<td>The Soviet Union and Eastern Europe</td>
<td></td>
</tr>
<tr>
<td>HIST 430</td>
<td>The Ancient Mediterranean World</td>
<td></td>
</tr>
<tr>
<td>HIST 445</td>
<td>The Holocaust</td>
<td></td>
</tr>
<tr>
<td>HIST 450</td>
<td>European History and Film</td>
<td></td>
</tr>
</tbody>
</table>

World History
Select two of the following:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 310</td>
<td>Latin American Civilization</td>
</tr>
<tr>
<td>HIST 333</td>
<td>The International History of the Cold War</td>
</tr>
<tr>
<td>HIST 334</td>
<td>History of the British Empire</td>
</tr>
<tr>
<td>HIST 340</td>
<td>History Of The Middle East</td>
</tr>
<tr>
<td>HIST 403</td>
<td>East Asia and the Modern World</td>
</tr>
</tbody>
</table>

United States History

Select two of the following:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 342</td>
<td>The Early American Republic</td>
</tr>
<tr>
<td>HIST 344</td>
<td>The Age of Industry in America</td>
</tr>
<tr>
<td>HIST 345</td>
<td>History of Immigration, Race, and Ethnicity in America</td>
</tr>
<tr>
<td>HIST 346</td>
<td>The United States in the 1950's and 1960's</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Early United States Women's History</td>
</tr>
<tr>
<td>HIST 371</td>
<td>20th Century United States Women's History</td>
</tr>
<tr>
<td>HIST 415</td>
<td>Colonial America</td>
</tr>
<tr>
<td>HIST 416</td>
<td>The American Revolution</td>
</tr>
<tr>
<td>HIST 420</td>
<td>Civil War</td>
</tr>
</tbody>
</table>

Topical History

Select two of the following:  

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 305</td>
<td>The Old South</td>
</tr>
<tr>
<td>HIST 315</td>
<td>American Indian History</td>
</tr>
<tr>
<td>HIST 316</td>
<td>American Slavery</td>
</tr>
<tr>
<td>HIST 320</td>
<td>The American West</td>
</tr>
<tr>
<td>HIST 332</td>
<td>History of Modern Warfare</td>
</tr>
<tr>
<td>HIST 355</td>
<td>Ancient and Medieval Cities</td>
</tr>
<tr>
<td>HIST 375</td>
<td>American Sport History</td>
</tr>
<tr>
<td>HIST 394</td>
<td>Junior Seminar in Historiography</td>
</tr>
<tr>
<td>HIST 405</td>
<td>Introduction to Public History</td>
</tr>
<tr>
<td>HIST 409</td>
<td>Material Culture Studies</td>
</tr>
<tr>
<td>HIST 410</td>
<td>Environmental History of the United States</td>
</tr>
<tr>
<td>HIST 425</td>
<td>History of Sexuality</td>
</tr>
<tr>
<td>HIST 435</td>
<td>Classical Archaeology</td>
</tr>
<tr>
<td>HIST 440</td>
<td>Early and Medieval Christianity</td>
</tr>
</tbody>
</table>

Free Elective - Select any Upper Division History Course

Secondary Education Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator (8 field experience hours)</td>
</tr>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession (12 field experience hours)</td>
</tr>
<tr>
<td>EDUC 342</td>
<td>Pedagogy and Assessment: Secondary and K-12 (20 field experience hours)</td>
</tr>
<tr>
<td>EDUC 434</td>
<td>Teaching to Diversity (20 field experience hours)</td>
</tr>
<tr>
<td>EDUC 442</td>
<td>Integrating Literacy Across the Curriculum: Secondary and K-12 Art (60 field experience hours)</td>
</tr>
<tr>
<td>EDUC 475</td>
<td>Classroom Management for K-12 Educators (60 field experience hours)</td>
</tr>
<tr>
<td>EDUC 497</td>
<td>Content Methodology Practicum (80 field experience hours)</td>
</tr>
<tr>
<td>EDUC 497B</td>
<td>Methods of Teaching Secondary Social Sciences</td>
</tr>
</tbody>
</table>

EDUC 499G Teaching Internship and Colloquia: Secondary (600 12 field experience hours)

Total Semester Credit Hours

1  Must earn a "B" or better in all EDUC courses.
2  Program Requirements: ENGL 111, ENGL 112, PSYC 233, EDUC 115 and EDUC 215 (all with a grade of "B" or better) and formal acceptance to the Teacher Education Program.
3  This course is only offered in the fall semester. It may be taken with either the 300-level or 400-level EDUC courses but must be taken before the student teaching semester.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTGO1</td>
</tr>
<tr>
<td>HIST 131</td>
<td>United States History-GTHI1</td>
</tr>
<tr>
<td>ES 101</td>
<td>Western Civilizations-GTHI1</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
</tr>
<tr>
<td>HIST 102</td>
<td>Western Civilizations-GTHI1</td>
</tr>
<tr>
<td>HIST 132</td>
<td>United States History-GTHI1</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
</tr>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
</tr>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession</td>
</tr>
<tr>
<td>EDUC 342</td>
<td>Pedagogy and Assessment: Secondary and K-12</td>
</tr>
<tr>
<td>EDUC 434</td>
<td>Teaching to Diversity</td>
</tr>
<tr>
<td>EDUC 475</td>
<td>Classroom Management for K-12 Educators</td>
</tr>
<tr>
<td>EDUC 497</td>
<td>Methods of Teaching Secondary Social Sciences</td>
</tr>
<tr>
<td>EDUC 497B</td>
<td>Methods of Teaching Secondary Social Sciences</td>
</tr>
</tbody>
</table>

First Year

Fall Semester

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ENGL 111</td>
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<td>Principles of Macroeconomics-GTSS1</td>
</tr>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
</tr>
</tbody>
</table>

Second Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Course - Foreign Language</td>
<td></td>
</tr>
<tr>
<td>HIST 202</td>
<td>Introduction to Historical Research</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
</tr>
<tr>
<td>POLS 101</td>
<td>American Government-GTSS1</td>
</tr>
<tr>
<td>or POLS 261</td>
<td>Comparative Politics-GTSS1</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
</tr>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Course - Foreign Language</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Natural Science with Lab</td>
<td></td>
</tr>
<tr>
<td>History Elective (2 courses)</td>
<td></td>
</tr>
<tr>
<td>GEG 103</td>
<td>World Regional Geography-GTSS2</td>
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Third Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>History Elective (3 courses)</td>
<td></td>
</tr>
<tr>
<td>ANTH 202</td>
<td>Introduction to Anthropology-GTSS3</td>
</tr>
<tr>
<td>KINA Activity</td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
</tr>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession</td>
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</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>EDUC 434</td>
<td>Pedagogy and Assessment: Secondary and K-12</td>
</tr>
<tr>
<td>EDUC 475</td>
<td>Classroom Management for K-12 Educators</td>
</tr>
<tr>
<td>EDUC 497</td>
<td>Methods of Teaching Secondary Social Sciences</td>
</tr>
<tr>
<td>EDUC 497B</td>
<td>Methods of Teaching Secondary Social Sciences</td>
</tr>
</tbody>
</table>

Fourth Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Course - Foreign Language</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Natural Science with Lab</td>
<td></td>
</tr>
<tr>
<td>History Elective (2 courses)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 497</td>
<td>Methods of Teaching Secondary Social Sciences</td>
</tr>
<tr>
<td>EDUC 497B</td>
<td>Methods of Teaching Secondary Social Sciences</td>
</tr>
<tr>
<td>EDUC 499G</td>
<td>Teaching Internship and Colloquia: Secondary (600 12 field experience hours)</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

12
### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

### History (Minor)

Minor: History  
Program Code: M720

### About This Minor . . .

The study of history prepares the student for understanding present society and culture through a study of the past. The history program familiarizes students with the great historical civilizations and issues that have shaped our present world. History teaches students how to critically analyze information and make a compelling argument; skills that everyone needs to be successful in all their endeavors. Internships are available through museums, historical societies, and public agencies.

### Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Program Specific Minor Requirements

(24 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>Western Civilizations-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 102</td>
<td>Western Civilizations-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 131</td>
<td>United States History-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 132</td>
<td>United States History-GTHI1</td>
<td>3</td>
</tr>
</tbody>
</table>

#### European History

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 300</td>
<td>History of England to 1660</td>
</tr>
<tr>
<td>HIST 301</td>
<td>History of Modern Britain</td>
</tr>
<tr>
<td>HIST 302</td>
<td>History of Modern France</td>
</tr>
<tr>
<td>HIST 303</td>
<td>History of Modern Germany</td>
</tr>
<tr>
<td>HIST 330</td>
<td>History of 19th Century Europe</td>
</tr>
<tr>
<td>HIST 331</td>
<td>The 20th Century</td>
</tr>
<tr>
<td>HIST 350</td>
<td>Renaissance and Reformation</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Public History (Minor)

Minor: Public History
Program Code: M721

About This Minor...

The public history minor prepares students to use historical skills outside the classroom in positions such as museums, archives, historical societies, and public agencies.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(21 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>Western Civilizations-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 102</td>
<td>Western Civilizations-GTHI1</td>
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</tr>
<tr>
<td>HIST 131</td>
<td>United States History-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Credit Hours</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>HIST 132</td>
<td>United States History-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 405</td>
<td>Introduction to Public History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 409</td>
<td>Material Culture Studies</td>
<td>3</td>
</tr>
<tr>
<td>HIST 499</td>
<td>History Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 21

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
HOSPITALITY MANAGEMENT

Program Description

The Bachelor of Applied Science (BAS) in Hospitality Management combines the technical skills and business proficiency necessary for success. A unique program, the BAS degree allows students who have already earned an AAS degree to build upon their technical specialties with essential learning courses and junior and senior level business courses. This allows associate degree holders to gain a 4-year degree in approximately four additional full-time semesters, depending upon prior coursework. Upon completion of the program, students will be technically and academically prepared for leadership positions in their chosen industries. Prospective students not holding an associate of applied science degree can begin their university career at CMU in a chosen field of study with a 2-year degree and then progress to a 4-year degree using the BAS. This degree will provide students with upward mobility in their area of employment as they move into supervision/management positions.

Upon completion of the Associate of Applied Science (AAS) in Hospitality Management, students will be prepared for an entry-level position in the broad and expanding hospitality industry, as well as be prepared to pursue the Bachelor of Applied Science in Hospitality Management. Business courses to be taken include courses in marketing, promotion, management, accounting, finance, small business management and entrepreneurship.

The minor in hospitality management is designed to prepare students to enter the world of hospitality management. Coursework in the areas of marketing, management and community tourism will provide students the basic skills needed in order to contribute more efficiently and effectively in the industry. For the student interested in the industry, a minor coupled with a bachelor's degree can increase the employment opportunities available in a variety of travel-related areas.

Contact Information
Department of Business
Dominguez Hall 301
970.248.1778

Associates
- Hospitality Management (AAS) (p. 465)

Bachelors/Minors
- Hospitality Management (BAS) (p. 463)
- Hospitality Management (Minor) (p. 467)
- Hospitality Management, Business Administration (BBA) (p. 226)

Hospitality Management (BAS)
Degree: Bachelor of Applied Science
Major: Hospitality Management
Program Code: 3163

About This Major . . .
The Bachelor of Applied Science in Hospitality Management combines the technical skills and business proficiency necessary for success in today’s business world. A unique program, the B.A.S. allows students who have already earned an associate of applied science degree to build upon their technical specialties with Essential Learning courses and junior and senior level business courses. This allows associate degree holders to gain a 4-year degree in approximately four additional full-time semesters, depending upon prior coursework.

Business courses to be taken include courses in marketing, promotion, management, accounting, finance, small business management and entrepreneurship. Upon completion of the program, students will be technically and academically prepared for leadership positions in the hospitality industry. Potential employment opportunities with this 4-year degree include management in any of the following areas: resort and hotel management, food and beverage management, travel and tourism management, health care and education food service management, etc. With the ever expanding world hospitality market, this degree has endless opportunities.

Prospective students not holding an associate of applied science degree can begin their college career at CMU in a chosen field of study with a 2-year degree and then progress to a 4-year degree using the B.A.S. This degree will provide students with upward mobility in their area of employment as they move into supervision/management positions.

Important information about this program:

- Formal admission to a BAS program requires completion of the appropriate AAS degree from an accredited institution. Any exceptions to this must be approved in advance by the department BAS advisor and the academic department head. All students must meet with the BAS advisor to plan and schedule all classes.
- To be admitted to the BAS degree, certain prerequisites must be satisfied. Please see the Business department head for complete requirements and application form.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business knowledge and skills in appropriate business contexts and transfer knowledge and skills to new business situations. (Critical Thinking)
2. Produce professional business work products, independently and working as a team. (Applied Learning)
3. Communicate clearly, appropriately, and persuasively to the business audience, both orally and in writing. (Communication Fluency)
4. Integrate knowledge from multiple functional areas of business to solve business problems and to develop sound business strategies. (Specialized Knowledge)
5. Analyze business data critically, reason logically, and apply quantitative analysis methods correctly to develop appropriate business conclusions. (Quantitative Fluency)
6. Properly and appropriately use information systems tools and techniques within functional business areas. (Applied Learning)
1. Apply financial, marketing, and operational business principles within the hospitality industry. (Specialized Knowledge)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU Bachelor of Applied Science (BAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 33 upper-division credits.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements. The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>English</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Mathematics</strong></td>
<td></td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>History</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Social and Behavioral Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Fine Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>31</td>
</tr>
</tbody>
</table>

1. Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2. This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3. 7 semester hours, one course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Wellness Requirement</strong></td>
<td></td>
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<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
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<tr>
<td></td>
<td><strong>Essential Learning Capstone</strong> 1</td>
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</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>6</td>
</tr>
</tbody>
</table>

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Program Specific Degree Requirements

(72 semester hours, must maintain a cumulative GPA of 2.0 or high for courses in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Business Courses</strong></td>
<td></td>
</tr>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 349</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
<tr>
<td>CISB 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 241</td>
<td>Introduction to Business Analysis</td>
<td></td>
</tr>
<tr>
<td>FINA 301</td>
<td>Managerial Finance</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 301</td>
<td>Organizational Behavior</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 410</td>
<td>Hospitality Facilities Management</td>
<td>3</td>
</tr>
<tr>
<td>HRMA 371</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>CISB 341</td>
<td>Quantitative Decision Making</td>
<td></td>
</tr>
<tr>
<td>MARK 350</td>
<td>Marketing Research</td>
<td></td>
</tr>
<tr>
<td>HMGT 450</td>
<td>Strategic Hospitality Sales and Marketing</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 470</td>
<td>Hospitality Management Strategies 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Bachelor of Applied Science Core</strong></td>
<td></td>
</tr>
</tbody>
</table>
36 semester hours taken as part of a state approved Associate of Applied Science degree

Total Semester Credit Hours 72

1 HMGT 470 requires prerequisites HMGT 101 and HMGT 200 that are not included above and must be taken by the student if they are not included in the AAS that is transferred into the BAS core.

**General Electives**

(11 semester hours)

All college level courses appearing on final transcript, not listed above to bring total semester hours to 120, including 33 hours of upper division credits. 11 semester hours, 9 semester hours must be upper division.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td>Select additional electives</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>11</td>
<td></td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audits on a regular basis and should discuss questions or concerns with their advisors or academic department heads. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Hospitality Management (AAS)**

Degree: Associate of Applied Science
Major: Hospitality Management
Program Code: 1163

**About This Major . . .**

The field of Hospitality Management combines the technical skills and business proficiency necessary for success in today's business world. Business courses to be taken include courses in marketing, business law, business technology, management, accounting, finance, economics, and hospitality specific courses. Upon completion of the program, students will be prepared for an entry-level position in the broad and expanding hospitality industry, as well as prepared to continue for advanced study in the Bachelor of Applied Science in Hospitality Management.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Locate, gather and organize information on an assigned hospitality management topic. (Specialized Knowledge)
2. Recognize mathematical concepts and methods in relation to hospitality management issues. (Quantitative Fluency)
3. Communicate clearly and appropriately basic hospitality management information. (Communication Fluency)
4. Describe beginning hospitality management concepts in appropriate business contexts. (Critical Thinking)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with
your advisor or academic department to determine which catalog year and program requirements you should follow.

- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Specific to this degree:**

- 66 semester hours total for the AAS, Hospitality Management.

### Essential Learning Requirements

(16 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>4</td>
</tr>
<tr>
<td>Other Essential Learning Core Courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 16

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one KINA Activity course</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 2

### Program Specific Degree Requirements

(48 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 202</td>
<td>Principles of Managerial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 211</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 231</td>
<td>Survey of Business Law</td>
<td>3</td>
</tr>
<tr>
<td>CISB 101</td>
<td>Business Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>or CISB 205</td>
<td>Advanced Business Software</td>
<td>3</td>
</tr>
<tr>
<td>CISB 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 101</td>
<td>Travel Industry I</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 200</td>
<td>Management and Supervisory Skills for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>or CUAR 255</td>
<td>Supervision in the Hospitality Industry</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 36

### Restricted Electives

Select 12 semester hours of the following or other electives as approved by your advisor:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMGT 201</td>
<td>Management in the Travel Industry I</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 211</td>
<td>Travel Destinations</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 217</td>
<td>Hotel Operations</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 218</td>
<td>Housekeeping Operations</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 241</td>
<td>Food and Beverage Operations</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 296</td>
<td>Topics</td>
<td>3</td>
</tr>
<tr>
<td>CUAR 115</td>
<td>Introduction to Sustainable Cuisine</td>
<td>3</td>
</tr>
<tr>
<td>CUAR 179</td>
<td>Wines, Spirits and Beers</td>
<td>3</td>
</tr>
<tr>
<td>CUAR 190</td>
<td>Dining Room Management</td>
<td>3</td>
</tr>
<tr>
<td>CUAR 261</td>
<td>Cost Controls</td>
<td>3</td>
</tr>
<tr>
<td>CUAR 262</td>
<td>Purchasing for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 299</td>
<td>Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 12

### First Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>4</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one KINA Activity course</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 15

**Spring Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CISB 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 241</td>
<td>Introduction to Business Analysis</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 200</td>
<td>Management and Supervisory Skills for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>or CUAR 255</td>
<td>Supervision in the Hospitality Industry</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 15

### Second Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 3
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Hospitality Management (Minor)

Minor: Hospitality Management
Program Code: M141

About This Minor. . .

The minor in Hospitality Management is designed to prepare students to enter the world of hospitality. Coursework in the areas of sales and marketing, hospitality management strategies and hotel operations will provide students the basic skills needed in order to contribute more efficiently and effectively in the area of hospitality. For the student interested in the area of hospitality, a minor coupled with a bachelor's degree can increase the employment opportunities available in a variety of hospitality-related areas.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(24 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMGT 101</td>
<td>Travel Industry I</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 200</td>
<td>Management and Supervisory Skills for the Hospitality Industry</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 310</td>
<td>Travel and Tourism Marketing Techniques</td>
<td>3</td>
</tr>
<tr>
<td>HMGT 450</td>
<td>Strategic Hospitality Sales and Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Select 12 semester hours of the following:</td>
<td></td>
<td>12</td>
</tr>
<tr>
<td>HMGT 211</td>
<td>Travel Destinations</td>
<td></td>
</tr>
<tr>
<td>HMGT 217</td>
<td>Hotel Operations</td>
<td></td>
</tr>
<tr>
<td>MARK 332</td>
<td>Promotion</td>
<td></td>
</tr>
<tr>
<td>HMGT 351</td>
<td>Community Tourism Systems</td>
<td></td>
</tr>
<tr>
<td>HMGT 410</td>
<td>Hospitality Facilities Management</td>
<td></td>
</tr>
<tr>
<td>HMGT 470</td>
<td>Hospitality Management Strategies</td>
<td></td>
</tr>
<tr>
<td>HMGT 299</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>HMGT 499</td>
<td>Internship</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 24
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
Program Description
The Humanities refer to disciplines that focus on the human condition, the social and cultural relationships we form with others. In contrast to math and the natural sciences, which privilege empirical methods to study society and the natural world, the humanities tend to use analytical and speculative approaches to understand our social, cultural, and personal contexts. After completing Essential Learning requirements, students will choose courses that help them explore how we understand and express ourselves, from Art, Dance, English, Graphic Art, and Foreign Languages, to Literature, Mass Communication, Music, Philosophy, Speech, and Theater. The Associate of Arts (AA) degree can be a terminal degree or serve as a pathway to a baccalaureate degree in the humanities.

Contact Information
Department of Languages
Literature and Mass Communication
Escalante Hall 237
970.248.1687

Associates
• Humanities, Liberal Arts (AA) (p. 469)

Humanities, Liberal Arts (AA)
Degree: Associate of Arts
Major: Liberal Arts
Emphasis: Humanities
Program Code: 2230

About This Major . . .
The Associate of Arts degree (AA) works in two ways: 1) it can function as a terminal degree; 2) it can function as a pathway into a baccalaureate degree in the humanities. The degree program meets the requirements of the Colorado Statewide Essential Learning Core. A student who is granted this degree can transfer to any institution in Colorado and graduate in a baccalaureate degree program by taking no more than 60 hours from that institution. The same applies for students who decide to move from the AA program into any Colorado Mesa BA program. A number of emphases are available within the AA degree. Students can build a course of study that focuses on their area of interest in the following disciplines: Creative Writing Fine and Performing Arts, Foreign Languages, Literature, Mass Communications, Philosophy and/or Speech.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU Associate of Arts graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning.

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU or WCCC Associate of Arts (AA) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 60 semester hours total.
• Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A grade of “C” or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado’s guaranteed transfer program.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 15 semester credit hours for an AA degree. A maximum of 6 of the 15 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
</tbody>
</table>
Select one Natural Sciences course with a lab 4
Total Semester Credit Hours 31
1 Must receive a grade of "C" or better and must be completed by the
time the student has 60 semester hours.
2 One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wellness Requirement</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one Activity course 1
Total Semester Credit Hours 2

Program Specific Degree Requirements
(27 semester hours, must maintain a 2.00 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select 27 credit hours from one or more of the following areas:</td>
<td>27</td>
</tr>
<tr>
<td></td>
<td>Art</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>English</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Graphic Art</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Foreign Languages</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Literature</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mass Communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Music</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Philosophy</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Speech</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Theater</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 27
1 No double counting is allowed between Essential Learning and major requirements.

Course Title Semester Credit Hours

First Year
Fall Semester
ENGL 111 English Composition-GTCO1 3
Essential Learning - History 3
Essential Learning - Humanities 3
Essential Learning - Natural Science with lab 4
Humanities Emphasis Requirement 3
KINE 100 Health and Wellness 1
Semester Credit Hours 17

Spring Semester
ENGL 112 English Composition-GTCO2 3
Essential Learning - Fine Arts 3
Essential Learning - Mathematics 3
Humanities Emphasis Requirement 3

Second Year
Fall Semester
Essential Learning - Social and Behavioral Sciences 3
Essential Learning - Natural Science without lab 3
Humanities Emphasis Requirement 3
Humanities Emphasis Requirement 3

Semester Credit Hours 15

Spring Semester
Essential Learning - Social and Behavioral Sciences 3
Humanities Emphasis Requirement 3
Humanities Emphasis Requirement 3
Humanities Emphasis Requirement 3

Semester Credit Hours 12

Total Semester Credit Hours 60

Students that intend to continue with Colorado Mesa University should take ESSL 290 and ESSL 200 during the final semester of their Associate of Arts work.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
INFORMATION AND COMMUNICATION TECHNOLOGY

Program Description
The Information and Communication Technology program will prepare you for a variety of specializations within the rapidly evolving Information and Communications Technology career field. The core of the program is the Cisco CCNA Networking series of classes. These classes are the best path to achieving a Cisco Certified Network Associate certification. In addition, the program emphasizes technologies that the entry-level employee will encounter: network hardware and software; business-class computer hardware and software; convergent data/voice/media communication hardware and software; internet of things hardware and software; 3D printing hardware and software; UAS (drones) and robotics (land drones) hardware; and software and management.

Curriculum is accredited, approved and aligned with national and international certifications by major business and industry in the computing, networking and ICT career fields.

Program Strengths:
• Modern labs using current technology, equipment and software
• Coursework aligned with national and international industry certifications including Cisco, A+/N+, CET, and Convergence Technology Professional (CTP)
• Hands-on application-based curriculum

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
• Information and Communication Technology (AAS) (p. 471)

Certificates
• Healthcare Information Networking, Information and Communication Technology (Technical Certificate) (p. 473)
• Help Desk Technician, Information and Communication Technology (Technical Certificate) (p. 474)
• Network Technician, Information and Communication Technology (Technical Certificate) (p. 475)

Information and Communication Technology (AAS)
Degree: Associate of Applied Science
Major: Information and Communication Technology
Program Code: 1318

About This Major . . .
The Information and Communication Technology (ICT) program provides the student with the foundation skills and knowledge for entry into the broad spectrum of ICT careers. It is designed to educate students in areas of business-class computer hardware and software, convergent data/voice/media communication hardware and software, computer network hardware and software, Internet of Things hardware and software, 3D Printing hardware and software, unmanned aerial Systems (UAS) and robotics hardware, software and management. The program utilizes CISCO curriculum for most courses, including the core Cisco Certified Network Associate (CCNA) courses to prepare students for the certification exam.

Curriculum is accredited, approved and aligned with national and international certifications by major business and industry in the networking and ICT career fields.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written, and electronic forms that are needed for entry level employment. (Communication Fluency)
2. Apply Mathematical and applied physics concepts for industry to meet employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences, and technical careers. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of associated technical skills. (Specialized Knowledge)
5. Perform the necessary applied skill sets to fulfill the needs of entry level employment. (Applied Learning)
6. Demonstrate ethical, civic, and work place responsibility as part of professional behavior. (Specialized Knowledge)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 60 semester hours minimum.
• Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.

• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.

• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:

• 60-61 semester hours total for the AAS, Information and Communication Technology.

Essential Learning Requirements

(15 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td></td>
</tr>
</tbody>
</table>

Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 108</td>
<td>Technical Mathematics (or higher)¹</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Essential Learning Core Courses

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Total Semester Credit Hours 15

¹ Note: MATH 108 is a 4 credit course. 3 credits apply to Essential Learning. MATH 110, MATH 113, or higher may be required for BAS and BS degrees at CMU.

Of the Total Semester Credit Hours, 1 credit applies to electives and 15 credits apply to Essential Learning requirements. See footnotes for more details.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one Activity Course 3

Total Semester Credit Hours 4

Program Specific Degree Requirements

(43 semester hours, each course must be completed with a grade of “C” or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECI 111</td>
<td>Healthcare Data Management and Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>TECI 131</td>
<td>Principles of Information Assurance</td>
<td>3</td>
</tr>
<tr>
<td>TECI 132</td>
<td>Introduction to IT Hardware and System Software</td>
<td>3</td>
</tr>
<tr>
<td>TECI 142</td>
<td>Internet of Things</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 160</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>TECI 163</td>
<td>Convergent Technologies</td>
<td>3</td>
</tr>
<tr>
<td>TECI 180</td>
<td>Cisco Networking I</td>
<td>3</td>
</tr>
<tr>
<td>TECI 185</td>
<td>Cisco Networking II</td>
<td>3</td>
</tr>
<tr>
<td>TECI 230</td>
<td>Cisco Networking III</td>
<td>3</td>
</tr>
<tr>
<td>TECI 235</td>
<td>Cisco Networking IV</td>
<td>3</td>
</tr>
<tr>
<td>TECI 242</td>
<td>Cloud Computing</td>
<td>3</td>
</tr>
<tr>
<td>TECI 265</td>
<td>Advanced IT Hardware and System Software</td>
<td>3</td>
</tr>
<tr>
<td>TECI 292</td>
<td>Capstone in Technical Engineering Planning and Economics</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 43

First Year

Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 108</td>
<td>Technical Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>TECI 132</td>
<td>Introduction to IT Hardware and System Software</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 160</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>TECI 180</td>
<td>Cisco Networking I</td>
<td>3</td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>TECI 142</td>
<td>Internet of Things</td>
<td>3</td>
</tr>
<tr>
<td>TECI 163</td>
<td>Convergent Technologies</td>
<td>3</td>
</tr>
<tr>
<td>TECI 185</td>
<td>Cisco Networking II</td>
<td>3</td>
</tr>
</tbody>
</table>

Second Year

Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINA Activity</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>TECI 111</td>
<td>Healthcare Data Management and Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>TECI 131</td>
<td>Principles of Information Assurance</td>
<td>3</td>
</tr>
<tr>
<td>TECI 230</td>
<td>Cisco Networking III</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

Spring Semester

Essential Learning - Social and Behavioral Sciences, Natural Sciences, Fine Arts or Humanities course

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>TECI 111</td>
<td>Healthcare Data Management and Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>TECI 131</td>
<td>Principles of Information Assurance</td>
<td>3</td>
</tr>
<tr>
<td>TECI 230</td>
<td>Cisco Networking III</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

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Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Healthcare Information Networking, Information and Communication Technology (Technical Certificate)

Degree: Technical Certificate
Program of Study: Information and Communication Technology
Specialization: Healthcare Information Networking
Program Code: 1116

About This Major...

This certificate prepares students for Healthcare ICT jobs by teaching them the special needs of the healthcare industry including the Health Insurance Portability and Accountability Act, Electronic Health Records, the Universal Protocol and how to design, implement, monitor, and troubleshoot networks in healthcare environments. This course complements the Cisco CCNA curriculum and is designed for students who would like to expand their networking abilities by developing specialized healthcare networking skills. Hands-on labs throughout the course help students gain practical experience, including procedural and troubleshooting labs, skills integration challenges, and model building.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Describe the concepts and provisions of Electronic Health Records and the Health Insurance Portability and Accountability Act
2. Describe how Information and Communication Technology is used in the Healthcare Industry
3. Describe the unique requirements and solutions for protecting healthcare information and networks.
4. Explain how to support, maintain, and troubleshoot a medical group network.

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(27 semester hours, must earn a grade of “C” or better in each course.)
### Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECI 111</td>
<td>Healthcare Data Management and Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>TECI 131</td>
<td>Principles of Information Assurance</td>
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</tr>
<tr>
<td>TECI 132</td>
<td>Introduction to IT Hardware and System Software</td>
<td>3</td>
</tr>
<tr>
<td>TECI 142</td>
<td>Internet of Things</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 160</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>TECI 163</td>
<td>Convergent Technologies</td>
<td>3</td>
</tr>
<tr>
<td>TECI 180</td>
<td>Cisco Networking I</td>
<td>3</td>
</tr>
<tr>
<td>TECI 185</td>
<td>Cisco Networking II</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>27</strong></td>
<td></td>
</tr>
</tbody>
</table>

### First Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECI 111</td>
<td>Healthcare Data Management and Information Systems</td>
<td>3</td>
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<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
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</tr>
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<td>TECI 131</td>
<td>Principles of Information Assurance</td>
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<td>TECI 132</td>
<td>Introduction to IT Hardware and System Software</td>
<td>3</td>
</tr>
<tr>
<td>TECI 142</td>
<td>Internet of Things</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Credit Hours</strong></td>
<td><strong>15</strong></td>
<td></td>
</tr>
</tbody>
</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TECI 180</td>
<td>Cisco Networking I</td>
<td>3</td>
</tr>
<tr>
<td>TECI 185</td>
<td>Cisco Networking II</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 160</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>TECI 163</td>
<td>Convergent Technologies</td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Credit Hours</strong></td>
<td><strong>12</strong></td>
<td></td>
</tr>
</tbody>
</table>

| **Total Semester Credit Hours**                             | **27**                |

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

### Help Desk Technician, Information and Communication Technology (Technical Certificate)

**Degree:** Technical Certificate  
**Program of Study:** Information and Communication Technology  
**Specialization:** Help Desk Technician  
**Program Code:** 1117

#### About This Major . . .

Upon completion of the program the student will be able to demonstrate skills, knowledge, and training for employment in an Information and Communication Technology Help Desk support position. Students learn the fundamentals of computer hardware and software, mobile devices, security and networking concepts, the responsibilities of the help desk technician and how to provide customer support.

For more information on what you can do with this major, go to [http://www.coloradomesa.edu/wccc/programs.html](http://www.coloradomesa.edu/wccc/programs.html).

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Identify best practice information security policies.
2. Describe the use of Convergent Technologies in a computer network.
3. Demonstrate proficiency and knowledge required for basic use of computer hardware, software, and the Internet.
4. Ability to install, configure and provide instruction on basics of using common office software tools.
5. Ability to identify, manage and overcome barriers to communication.

### Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
A grade lower than "C" will not be counted toward meeting the requirements.

- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Program Specific Certificate Requirements
(21 semester hours, must earn a grade of "C" or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
<td>3</td>
</tr>
<tr>
<td>TECI 131</td>
<td>Principles of Information Assurance</td>
<td>3</td>
</tr>
<tr>
<td>TECI 132</td>
<td>Introduction to IT Hardware and System Software</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 160</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>TECI 163</td>
<td>Convergent Technologies</td>
<td>3</td>
</tr>
<tr>
<td>TECI 180</td>
<td>Cisco Networking I</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 257</td>
<td>Managing Office Technology I</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 21

### Course Title Semester Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
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</tr>
<tr>
<td>TECI 180</td>
<td>Cisco Networking I</td>
<td>3</td>
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</table>

First Year
Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 128</td>
<td>Workplace Behavior</td>
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</tr>
<tr>
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</tr>
<tr>
<td>TECI 132</td>
<td>Introduction to IT Hardware and System Software</td>
<td>3</td>
</tr>
<tr>
<td>TECI 180</td>
<td>Cisco Networking I</td>
<td>3</td>
</tr>
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</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 257</td>
<td>Managing Office Technology I</td>
<td>3</td>
</tr>
<tr>
<td>ABUS 160</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>TECI 163</td>
<td>Convergent Technologies</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 21

### Network Technician, Information and Communication Technology (Technical Certificate)

- Degree: Technical Certificate
- Program of Study: Information and Communication Technology
- Specialization: Network Technician
- Program Code: 1118

About This Major . . .

This certificate is based on the Cisco CCNA Routing and Switching series of courses and prepares students for the Cisco Certified Network Associate exam. The CCNA certification will prepare students for any entry-level networking career. Additional classes cover computers, information security, convergent communications technologies, best practice customer relations and workplace behavior.

The coursework in this certificate is aligned with national and international certifications including Cisco, A+/N+, CET, and Convergent Technology Professional (CTP). Program content has been structured to give a basic education to all graduates entering this field. Emphasis has been placed on providing a common core of training for all students due to the convergence of the communication industries.
For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written, and electronic forms that are needed for entry level employment. (Communication Fluency)
2. Apply Mathematical and applied physics concepts for industry to meet employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences, and technical careers. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of associated technical skills. (Specialized Knowledge)
5. Perform the necessary applied skill sets to fulfill the needs of entry level employment. (Applied Learning)
6. Demonstrate ethical, civic, and work place responsibility as part of professional behavior. (Specialized Knowledge)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than "C" will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(27 semester hours, must earn a grade of "C" or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 128</td>
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<td>Convergent Technologies</td>
<td>3</td>
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<tr>
<td>TECI 180</td>
<td>Cisco Networking I</td>
<td>3</td>
</tr>
<tr>
<td>TECI 185</td>
<td>Cisco Networking II</td>
<td>3</td>
</tr>
<tr>
<td>TECI 230</td>
<td>Cisco Networking III</td>
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<td>TECI 235</td>
<td>Cisco Networking IV</td>
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</table>

Total Semester Credit Hours 27

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 128</td>
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</tr>
<tr>
<td>TECI 180</td>
<td>Cisco Networking I</td>
<td>3</td>
</tr>
<tr>
<td>TECI 185</td>
<td>Cisco Networking II</td>
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</tr>
<tr>
<td>TECI 230</td>
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<td>TECI 235</td>
<td>Cisco Networking IV</td>
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</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
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<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABUS 160</td>
<td>Introduction to Customer Service</td>
<td>3</td>
</tr>
<tr>
<td>TECI 230</td>
<td>Cisco Networking III</td>
<td>3</td>
</tr>
<tr>
<td>TECI 235</td>
<td>Cisco Networking IV</td>
<td>3</td>
</tr>
<tr>
<td>TECI 163</td>
<td>Convergent Technologies</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 12

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
Program Description
The certificate in insurance is designed to certify students who possess the knowledge and skills needed to work as insurance agents. The certificate will provide students with a foundation for further study toward an insurance concentration in the BBA, which more fully prepares a person for a career in the insurance industry.

Contact Information
Department of Business
Dominguez Hall 301
970.248.1778

Bachelors
• Insurance, Business Administration (BBA) (p. 232)

Certificates
• Insurance (Professional Certificate) (p. 478)

Insurance (Professional Certificate)
Award: Professional Certificate
Program of Study: Insurance
Program Code: 1173

About This Major . . .
The Certificate in Insurance is designed to prepare students with the knowledge and skills needed to engage in insurance agent activities in the workplace. The certificate will provide students with an overview of information they would encounter if they went on to earn the Insurance Concentration in the BBA, which more fully prepares a person for a career as an insurance agent.

Institutional Certificate Requirements
The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.
• Primarily 300-400 level courses.
• At least fifty percent of the credit hours must be taken at CMU.
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

Program Specific Certificate Requirements
(9 semester hours, must earn a grade of "C" or better in each course.)

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<tr>
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</thead>
<tbody>
<tr>
<td>FINA 310</td>
<td>Risk Management ¹</td>
<td>3</td>
</tr>
<tr>
<td>FINA 412</td>
<td>Life and Health Insurance Licensure and Financial Planning ¹</td>
<td>3</td>
</tr>
<tr>
<td>FINA 415</td>
<td>Property and Liability Insurance Licensure ¹</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>9</td>
</tr>
</tbody>
</table>

¹ Consult with Business Department advisor regarding prerequisite classes that might be necessary to take.

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.
INTERNATIONAL STUDIES

Program Description
The international studies minor recognizes the complex interconnections between academic disciplines, peoples in cultural contexts, and opportunities for social and economic advancement for our graduates. Students from a wide variety of disciplines can supplement their major in business, social sciences, natural sciences or humanities with an international focus through this minor. Students choose from a menu of options drawn from disciplines across the campus. The interdisciplinary nature of the international studies minor is essential for preparing students to enter the new global marketplace of ideas and goods. Students taking the international studies minor are encouraged to enhance their experience by participating in a variety of study abroad opportunities available while attending CMU.

Contact Information
Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Bachelors/Minors
• International Studies (Minor) (p. 480)

International Studies (Minor)
Minor: International Studies
Program Code: M753

About This Minor. . .
The International Studies Minor recognizes the complex interconnections between academic disciplines, peoples in cultural contexts, and opportunities for social and economic advancement for our graduates.

Students from a wide variety of disciplines can supplement their major in business, social sciences, natural sciences or humanities with an international focus through this minor. This will help them to understand the changing nature of their field while making their degree more marketable in a global workforce.

Students choose from a menu of options drawn from disciplines across the campus. The interdisciplinary nature of the international studies minor is essential for preparing our students to enter into the new global marketplace of ideas and goods. Students taking the International Studies Minor are encouraged to enhance their experience at Colorado Mesa by participating in a variety of Study Abroad opportunities available while attending CMU.

Institutional Minor Requirements
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

• A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
• Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
• At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
• At least 25 percent of the classes must be taken at CMU.
• 2.00 cumulative GPA or higher for the courses used for the minor.
• A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
• A minor must be outside the major field of study.
• A student may earn up to five minors with any baccalaureate degree at CMU.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements
(24 semester hours)
• As part of their program, students will be encouraged to participate in an international experience in consultation with their advisors. This experience could be a semester or summer abroad, an international internship, an intensive immersion language program in another country, or participation in a growing number of study abroad opportunities offered by Colorado Mesa University. The credits received from this experience could be used to fulfill essential learning requirements or program requirements including unrestricted electives, but are not intended to add to the 120-hour graduation requirement. Substitutions would need to be approved by an advisor and department chair prior to the international experience.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>FLA 211</td>
<td>Second Year (Language) I</td>
<td>3</td>
</tr>
<tr>
<td>INTS 101</td>
<td>Introduction to International Studies</td>
<td>3</td>
</tr>
<tr>
<td>BUGC 401</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td></td>
</tr>
<tr>
<td>ECON 342</td>
<td>Intermediate Macroeconomic Theory</td>
<td></td>
</tr>
<tr>
<td>ECON 420</td>
<td>International Economics</td>
<td></td>
</tr>
<tr>
<td>FINA 431</td>
<td>International Financial Management</td>
<td></td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
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<tr>
<td>HIST 102</td>
<td>Western Civilizations-GTHI1</td>
<td>3</td>
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<tr>
<td>HIST 301</td>
<td>History of Modern Britain</td>
<td></td>
</tr>
<tr>
<td>HIST 310</td>
<td>Latin American Civilization</td>
<td></td>
</tr>
<tr>
<td>HIST 331</td>
<td>The 20th Century</td>
<td></td>
</tr>
<tr>
<td>HIST 340</td>
<td>History Of the Middle East</td>
<td></td>
</tr>
<tr>
<td>HIST 403</td>
<td>East Asia and the Modern World</td>
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</tr>
<tr>
<td>ENGL 231</td>
<td>Non-Western World Literature I-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
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<td></td>
</tr>
<tr>
<td>ENGL 232</td>
<td>Non-Western World Literature II - GTAH2</td>
<td></td>
</tr>
<tr>
<td>ENGL 330</td>
<td>Women in World Thought and Literature</td>
<td></td>
</tr>
<tr>
<td>ENGL 478</td>
<td>20th Century British Literature</td>
<td></td>
</tr>
<tr>
<td>FLAS 311</td>
<td>History and Culture of Spain</td>
<td></td>
</tr>
<tr>
<td>FLAV 390</td>
<td>Special Studies in Foreign Languages</td>
<td></td>
</tr>
</tbody>
</table>

**Natural Science and Mathematics**

Select one of the following: 3

- BIOL 315 Epidemiology
- BIOL 407 Tropical Field Biology
- BIOL 415 Tropical Ecosystems
- CHEM 300 Environmental Chemistry
- GEOG 131 Introduction to Cartography
- GEOL 103 Weather and Climate - GTSC2
- GEOL 104 Oceanography - GTSC2
- GEOL 107 Natural Hazards and Environmental Geology - GTSC2
- GEOL 359 Survey of Energy-Related Natural Resources
- GIST 332 Introduction to Geographic Information Systems and Introduction to Geographic Information Systems Laboratory

**Social and Behavioral Science**

Select one of the following: 3

- GEOG 103 World Regional Geography - GTSS2
- POLS 261 Comparative Politics - GTSS1
- POLS 270 World Politics
- POLS 366 Government and Politics of Asia
- POLS 372 Peace and Conflict Studies
- POLS 373 Global Politics of Women and Gender
- POLS 471 Politics of Global Governance
- POLS 472 International Political Economy
- POLS 482 International Relations Theory
- SOCO 310 Sociology of Religion
- SOCO 314 Population

Select one of the following: 3

- Additional course from the Business, History, Languages and Literature, Natural Science and Mathematics, or Social and Behavior Sciences lists above

Complete 3 credits through a pre-approved study abroad program

**Total Semester Credit Hours** 24

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**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

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**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.
JAZZ STUDIES

(See Music (p. 560))
KINESIOLOGY

Program Description

Students concentrating in adapted physical education will learn to adapt or modify the physical education curriculum and/or instruction to address specific abilities of individuals. Students will learn to develop activities that are appropriate and effective for persons with disabilities. Career opportunities include: adapted physical education teacher (K-12), which requires completing the K-12 concentration coursework; activity director at an assisted living center or rehabilitation facility; physical therapist\(^1\); and occupational therapist\(^1\).

\(^1\) Career requires additional post-baccalaureate studies.

The K-12 teaching concentration prepares students to teach elementary, middle and high school physical education. The degree plan includes coursework covering human anatomy and physiology, team and individual sports, exercise science and teaching methods courses. Students will gradually accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout western Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings. Before being admitted into the teacher education program, the following courses must be completed with a grade of B or better:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession</td>
<td>1</td>
</tr>
</tbody>
</table>

A grade of C or better is required for MATH 110. Also, a minimum cumulative GPA of 2.8 (including transfer and CMU coursework) is required of all students for admission into the program.

Students enrolled in the personal training certificate should have a strong interest in fitness, health promotion and personal training. Students will engage in practical experiences that will help them with the possibility of a future career in personal training. Students will explore subject areas that include: anatomy, physiology, kinesiology, applications of physical fitness and exercise physiology.

Contact Information

Department of Kinesiology
Maverick Center 237B
970.248.1635

Bachelors/Minors

- Adapted Physical Education, Kinesiology (BA) (p. 483)
- Education: K-12 Education, Kinesiology (BA) (p. 486)

Certificates

- Personal Training (Professional Certificate) (p. 489)

Adapted Physical Education, Kinesiology (BA)

Degree: Bachelor of Arts
Major: Kinesiology
Concentration: Adapted Physical Education
Program Code: 3132

About This Major . . .

Students who select this major will learn to adapt or modify the physical education curriculum and/or instruction to address specific abilities of individuals. Students will learn to develop activities that are appropriate and effective for persons with disabilities. Career opportunities include: adapted physical education teacher (K-12) which requires completing the K-12 concentration coursework; activity director at an assisted living center or rehabilitation facility; physical therapist\(^1\); occupational therapist\(^1\). Colorado Mesa students frequently continue their study towards graduate or professional degrees at other universities.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

\(^1\) Career requires additional post-baccalaureate studies.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Describe physiological and biomechanical concepts related to movement and be able to communicate and formulate conclusions about the results. (Critical Thinking)
2. Apply motor development theory and principles related to skillful movement, physical activity, and fitness. (Communication Fluency, Specialized Knowledge)
3. Identify the scope and definitions of health, fitness, and human performance with the ability to analyze the data critically. (Applied Learning, Quantitative Fluency)
4. Develop developmentally appropriate learning experiences that address the diverse needs of all individuals. (Applied Learning)
5. Use a variety of assessments and feedback procedures to foster student learning. (Applied Learning, Quantitative Fluency)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics

History

Select one History course

Humanities

Select one Humanities course

Social and Behavioral Sciences

Select one Social and Behavioral Sciences course

Select one Social and Behavioral Sciences course

Fine Arts

Select one Fine Arts course

Natural Sciences

Select one Natural Sciences course

Select one Natural Sciences course with a lab

Total Semester Credit Hours

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 Suggested: PSYC 150, General Psychology (3).
3 One course must include a lab.

Other Lower Division Requirements

Wellness Requirement

KINE 100 Health and Wellness

Select one Activity course

Select one Activity course

Essential Learning Capstone

ESSL 290 Maverick Milestone

ESSL 200 Essential Speech

Total Semester Credit Hours

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

(4-7 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Student must have a current CPR card or take one of the following: 0-3

KINE 250 Lifeguard Training

KINE 265 First Aid and CPR/AED for the Health Care Provider

Total Semester Credit Hours

Program Specific Degree Requirements

(48 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 200</td>
<td>History and Philosophy of Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KINE 213</td>
<td>Applications of Physical Fitness and Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303L</td>
<td>Physiology of Exercise Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>KINE 309</td>
<td>Anatomical Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 401</td>
<td>Organization/Administration/Legal Considerations in Physical Education and Sports</td>
<td>3</td>
</tr>
<tr>
<td>KINE 494</td>
<td>Kinesiology Senior Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

Required Concentration Courses

PSYC 340 Abnormal Psychology

KINE 211 or KINE 251 Methods of Lifetime, Individual, and Dual Activities or Water Safety Instructor Course

KINE 301 Health and Fitness Assessment

KINE 360 Motor Learning

KINE 415 Physical Activity and Aging
KINE 420 Therapeutic Interventions 3
KINE 480 Inclusive Physical Activity 3
KINE 499 Internship 4
Total Semester Credit Hours 42

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Restricted Electives</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
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<td>6</td>
</tr>
<tr>
<td>FLSL 111</td>
<td>American Sign Language I</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FLSL 112</td>
<td>American Sign Language II</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINE 333</td>
<td>Community Health</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 310</td>
<td>Child Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 330</td>
<td>Psychology of Adolescents and Emerging Adulthood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 350</td>
<td>Psychology Of Adulthood</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total hours to 120 hours. 27-30 hours, up to 7 hours of upper division electives may be required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
<td></td>
<td>27-30</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td></td>
<td>27-30</td>
</tr>
</tbody>
</table>

First Year

Fall Semester

ENGL 111  English Composition-GTCD1  3
KINE 100  Health and Wellness  1
KINE 200  History and Philosophy of Sport and Physical Education  3
Essential Learning - Fine Arts  3
Essential Learning - Natural Science  3
Essential Learning - Humanities  3
Total Semester Credit Hours 16

Spring Semester

ENGL 112  English Composition-GTCD2  3
BIOL 209  Human Anatomy and Physiology  3
BIOL 209L Human Anatomy and Physiology Laboratory  1
KINE 213  Applications of Physical Fitness and Exercise Prescription  3
MATH 110  College Mathematics-GTMA1  3
Essential Learning - Social and Behavioral Science  3
Total Semester Credit Hours 16

Second Year

Fall Semester

KINE Activity  1
KINE 211  Methods of Lifetime, Individual, and Dual Activities  3
Essential Learning - Natural Science with Lab  4
Essential Learning - Social and Behavioral Science  3
General Electives  6
Total Semester Credit Hours 17

Spring Semester

KINE 309  Anatomical Kinesiology  3
KINE 360  Motor Learning  3
KINE 303  Physiology of Exercise  3
KINE 303L  Physiology of Exercise Laboratory  1
KINE 420  Therapeutic Interventions  3
General Electives  3
Total Semester Credit Hours 14

Third Year

Fall Semester

KINE 301  Health and Fitness Assessment  3
KINE 415  Physical Activity and Aging  3
KINE 480  Inclusive Physical Activity  3
General Electives  6
Total Semester Credit Hours 16

Spring Semester

KINE 494  Kinesiology Senior Seminar  1
KINE 499  Internship  6
Restricted Elective - FLSL, PSYC, or KINE option  3
General Electives (if needed)  4
Total Semester Credit Hours 14

Fourth Year

Fall Semester

PSYC 340  Abnormal Psychology  3
KINE 401  Organization/Administration/Legal Considerations in Physical Education and Sports  3
Restricted Elective - FLSL, PSYC, or KINE option  3
General Elective  3
Total Semester Credit Hours 12

Spring Semester

KINE 309  Anatomical Kinesiology  3
KINE 360  Motor Learning  3
KINE 303  Physiology of Exercise  3
KINE 303L  Physiology of Exercise Laboratory  1
KINE 420  Therapeutic Interventions  3
General Electives  3
Total Semester Credit Hours 14

Total Semester Credit Hours 120

1  PSYC 150 - General Psychology recommended.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.
Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Education: K-12 Education, Kinesiology (BA)

Degree: Bachelor of Arts
Major: Kinesiology
Concentration: K-12 Teaching
Program Code: 3137

About This Major . . .

Students will be prepared to teach elementary, middle, and high school physical education. The degree plan includes coursework covering human anatomy and physiology, team and individual sports, exercise science, and teaching methods courses. Students must gradually accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout Western Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings.

Before being admitted into the Teacher Education program, the following courses must be completed with a grade of B or better:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1 1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2 1</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession</td>
<td>1</td>
</tr>
</tbody>
</table>

1 English honors may be substituted for ENGL 111 and ENGL 112.

A grade of C or better is required for MATH 110. Also, a minimum cumulative GPA of 2.8 (including transfer and CMU coursework) is required of all students for admission into the program.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

Important information about this program:

- Students must maintain a 2.80 cumulative GPA or higher in all CMU coursework.
- All other coursework toward the degree must be successfully completed prior to the internship.
- Kinesiology licensure students must take the Praxis II content exam prior to student teaching (fee required).
- Students must have ENGL 111 & ENGL 112 (or ENGL 219), PSYC 233, EDUC 115, EDUC 215 (All with grade of "B" or higher) and MATH 110 or higher (with grade of "C" or higher) and formal acceptance to the Teacher Education Program.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply scientific concepts that relate to the development of physically educated individuals. (Critical Thinking)
2. Consistently display competent motor skills and fitness levels. (Applied Learning)
3. Plan and teach developmentally appropriate standard based lesson plans. (Specialized Knowledge)
4. Demonstrate teaching skills and strategies that improve learning for all student abilities. (Communication Fluency)
5. Use a variety of assessments and feedback procedures to foster student learning. (Applied Learning, Quantitative Fluency)
6. Demonstrate appropriate attitudes and values (dispositions) that are essential to teachers. (Applied Learning)
7. Instruct K-12 students based on self-written learning plans to address individual learning and developmental patterns. (Specialized Knowledge)
8. Design a safe and supportive learning environment for elementary and secondary education students. (Applied Learning)
9. Apply content knowledge while working with learners to access information in real world settings assuring learner mastery of the content. (Specialized Knowledge)
10. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication. (Critical Thinking/ Communication Fluency)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
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• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics 2

History

Select one History course

Humanities

Select one Humanities course

Social and Behavioral Sciences

PSYC 233 Human Growth and Development-GTSS3

Select one Social and Behavioral Sciences course

Fine Arts

Select one Fine Arts course

Natural Sciences 4

Select one Natural Sciences course

Select one Natural Sciences course with a lab

Total Semester Credit Hours

1 Must receive a grade of "B" or better and must be completed by the time the student has 60 semester hours.
2 Must receive a grade of "C" or better, must be completed by the time the student has 60 semester hours.
3 Must receive a grade of "B" or better.
4 One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity Course</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Select one Activity Course</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(4-7 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>KINE 250</td>
<td>Lifeguard Training</td>
<td>0-3</td>
</tr>
<tr>
<td>KINE 265</td>
<td>First Aid and CPR/AED for the Health Care Provider</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

Program Specific Degree Requirements
(68-70 semester hours, must maintain a 2.80 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 200</td>
<td>History and Philosophy of Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KINE 213</td>
<td>Applications of Physical Fitness and Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303L</td>
<td>Physiology of Exercise Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>KINE 309</td>
<td>Anatomical Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 401</td>
<td>Organization/Administration/Legal Considerations in Physical Education and Sports</td>
<td>3</td>
</tr>
<tr>
<td>KINE 494</td>
<td>Kinesiology Senior Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

Required Concentration Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 211</td>
<td>Methods of Lifetime, Individual, and Dual Activities</td>
<td>3</td>
</tr>
<tr>
<td>KINE 214</td>
<td>Methods of Team Activities</td>
<td>3</td>
</tr>
<tr>
<td>KINE 256</td>
<td>Methods of Creative Play, Dance, Gymnastics, and Literacy</td>
<td>3</td>
</tr>
<tr>
<td>KINE 260</td>
<td>School Health Education</td>
<td>3</td>
</tr>
<tr>
<td>KINE 301</td>
<td>Health and Fitness Assessment</td>
<td>3</td>
</tr>
</tbody>
</table>
### KINE 320
Methods of Teaching Physical Education in Elementary Schools (10 field experience hours) 3

### KINE 360
Motor Learning 3

### KINE 480
Inclusive Physical Activity 3

### KINE 408
Methods of Teaching Physical Education in Secondary Schools (10 field experience hours) 3

### KINE 497
Pre-Internship in Physical Education (120 field experience hours) 3

Select one of the following: 1-3
- KINA 101 Beginning Swimming
- KINA 102 Intermediate Swimming
- KINE 251 Water Safety Instructor Course

### K-12 Licensure Requirements
- EDUC 115 What It Means To Be An Educator (8 field experience hours) 1
- EDUC 215 Teaching as a Profession (12 field experience hours) 1
- EDUC 342 Pedagogy and Assessment: Secondary and K-12 (20 field experience hours) 3
- EDUC 343 Teaching to Diversity (20 field experience hours) 3
- EDUC 499D Teaching Internship and Colloquia: Elementary for K-12 (300 field experience hours) 6
- EDUC 499H Teaching Internship and Colloquia: Secondary for K-12 (300 field experience hours) 6

Total Semester Credit Hours 68-70

1 All EDUC prefix courses must be completed with a grade of “B” or better to progress through and complete the program sequence.

### General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 5-10 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives (see recommendations below)</td>
<td>5-10</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>5-10</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 203</td>
<td>Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>KINE 307</td>
<td>Philosophy and Psychology of Coaching</td>
<td>3</td>
</tr>
<tr>
<td>KINE 370</td>
<td>Biomechanics &amp; Biomechanics Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>KINE 335</td>
<td>Sport in Society</td>
<td>3</td>
</tr>
<tr>
<td>KINE 342</td>
<td>Sport Law and Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>KINE 403</td>
<td>Advanced Strength and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>KINE 405</td>
<td>Sports Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

While the sequencing below culminates in a total of 116-125 semester credit hours, students must complete a minimum of 120 semester credit hours as required for completion of the degree. Plan to complete requirements with varying hour options accordingly.

### Course Title

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTC01</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>KINE 200</td>
<td>History and Philosophy of Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Natural Science</td>
<td>3</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTC02</td>
<td>3</td>
</tr>
<tr>
<td>KINE 213</td>
<td>Applications of Physical Fitness and Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession</td>
<td>1</td>
</tr>
<tr>
<td>KINA Activity</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>KINE 214</td>
<td>Methods of Team Activities</td>
<td>3</td>
</tr>
<tr>
<td>KINE 256</td>
<td>Methods of Creative Play, Dance, Gymnastics, and Literacy</td>
<td>3</td>
</tr>
<tr>
<td>KINE 250 or KINE 265</td>
<td>Lifeguard Training or First Aid and CPR/AED for the Health Care Provider</td>
<td>3</td>
</tr>
<tr>
<td>Elective (if needed)</td>
<td>0-1</td>
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Total Semester Credit Hours 15-16

<table>
<thead>
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</tr>
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<tbody>
<tr>
<td>KINE 309</td>
<td>Anatomical Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 360</td>
<td>Motor Learning</td>
<td>3</td>
</tr>
<tr>
<td>KINE 408</td>
<td>Methods of Teaching Physical Education in Secondary Schools</td>
<td>3</td>
</tr>
<tr>
<td>KINE 480</td>
<td>Inclusive Physical Activity</td>
<td>3</td>
</tr>
<tr>
<td>KINE 301</td>
<td>Health and Fitness Assessment</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 260</td>
<td>School Health Education</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303L</td>
<td>Physiology of Exercise Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>KINE 320</td>
<td>Methods of Teaching Physical Education in Elementary Schools</td>
<td>3</td>
</tr>
<tr>
<td>KINA Activity</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following: 1-3
- KINA 101 Beginning Swimming
- KINA 102 Intermediate Swimming
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Personal Training (Professional Certificate)

Award: Professional Certificate
Program of Study: Personal Training
Program Code: 1145

About This Major . . .

Students enrolled in the Personal Training certificate program should have a strong interest in fitness, health promotion, and personal training. Students will engage in practical experiences that will help them with the possibility of a future career in personal training. Students will explore subject areas that include: anatomy, physiology, kinesiology, nutrition, applications of physical fitness, and exercise physiology. This program is designed to provide the student with the knowledge required to pass national certification examinations to become a National Strength and Conditioning Association – Certified Personal Trainer (NSCA-CPT), National Strength and Conditioning Association – Certified Strength and Conditioning Specialist (NSCA-CSCS), American College of Sports Medicine Certified Personal Trainer (ACSM-CPT), and/or American College of Sports Medicine Certified Exercise Physiologist (ACSM c-EP).

Important information about this program:

- 32 semester hours for the Professional Certificate in Personal Training.
- 2.00 cumulative GPA or higher in the certificate is required.
- At least 33 percent of the credit hours required for the certificate must be in courses numbered 300 or above.
- CPR/First Aid Certification is a graduation requirement for this certificate.
- Students are required to provide documentation (proof of payment and scheduled date) that they are registered to take one of the following exams:
  - American College of Sports Medicine Certified Personal Trainer (ACSM-CPT)
  - American College of Sports Medicine Certified Exercise Physiologist (ACSM c-EP)
  - National Strength and Conditioning Association Certified Personal Trainer (NSCA-CPT)
  - National Strength and Conditioning Association Certified Strength and Conditioning Specialist (NSCA-CSCS)

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Evaluate the functions of the individual body systems.
2. Identify risk factors associated with chronic disease.
3. Identify exercise cautions and other safety concerns.
4. Describe procedures for physiological assessments.
5. Demonstrate the ability to clearly communicate specialized knowledge.

1 Both of these certificates require the student to be in their final semester of the baccalaureate degree.
Institutional Certificate Requirements
The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.
• Primarily 300-400 level courses.
• At least fifty percent of the credit hours must be taken at CMU.
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(32 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>KINA 128</td>
<td>Intermediate Weight Training</td>
<td>1</td>
</tr>
<tr>
<td>KINE 203</td>
<td>Human Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>KINE 213</td>
<td>Applications of Physical Fitness and Exercise Prescription</td>
<td>3</td>
</tr>
<tr>
<td>KINE 297</td>
<td>Practicum</td>
<td>2</td>
</tr>
<tr>
<td>KINE 301</td>
<td>Health and Fitness Assessment</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303</td>
<td>Physiology of Exercise</td>
<td>3</td>
</tr>
<tr>
<td>KINE 303L</td>
<td>Physiology of Exercise Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>KINE 309</td>
<td>Anatomical Kinesiology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 310</td>
<td>Methods of Exercise Instruction</td>
<td>3</td>
</tr>
<tr>
<td>KINE 403</td>
<td>Advanced Strength and Conditioning</td>
<td>3</td>
</tr>
<tr>
<td>KINE 405</td>
<td>Sports Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 32

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.
LAND SURVEYING AND GEOMATICS

Program Description
The Land Surveying program prepares students to use equipment that is an integral part of land development for areas of engineering, construction projects and planning. Students learn to measure elevations, use equipment to measure on or below the surface and use technology to process data. The students will gain the knowledge needed for state certification.

All surveyor-specific courses can be completed for the two-year degree.

An on-line certificate program allows students who are already working as survey interns to complete the necessary computation/calculation, error analysis, and math and ethics coursework to enable them to take and successfully pass the state's Professional Surveyor Exam.

Land Surveying and Geomatics students will:

• Understand the fundamentals of land surveying;
• Use the components and use of Global Positioning Systems (GPS) and Geographical Information Systems (GIS) and be able to gather and analyze data from these systems;
• Develop spreadsheets and utilize other relevant computer programs (CAD and industry specific software programs) to provide accurate surveying analytics;
• Apply higher level mathematical concepts that are necessary to complete complex survey tasks (analytical geometry, upper level algebra, calculus, statistics);
• Utilize the Common Law roots of Boundary Law, its importance in maintaining accurate records and be able to apply those principles in surveying.
• Work within the ethical, as well as the practical, role of surveying, including the applicable state and local laws.

Career Opportunities
• Surveyors
• Geodetic Surveyors
• Soil and Water Conservationists
• Landscape Architects
• Title Examiners, Abstractors, and Searchers
• Appraisers, Real Estate

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
• Land Surveying and Geomatics (AAS) (p. 491)

Certificates
• Land Surveying and Geomatics (Technical Certificate) (p. 493)

Land Surveying and Geomatics (AAS)
Degree: Associate of Applied Science
Program of Study: Land Surveying and Geomatics
Program Code: 1334

About This Major . . .
The Land Surveying and Geomatics program prepares students to use equipment that is an integral part of land development for areas of engineering, construction projects and planning. Students learn to measure elevations, use equipment to measure on or below the surface and use technology to process data. The students will gain the knowledge that is needed for state certification.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate the fundamentals of land surveying;
2. Describe the components and use of Global Positioning Systems (GPS) and Geographical Information Systems (GIS) and be able to gather and analyze data from these systems;
3. Demonstrate and describe competently use spreadsheets and other relevant computer programs (CAD and industry specific software programs) to provide accurate surveying analytics;
4. Demonstrate and apply higher level mathematical concepts that are necessary to complete complex survey tasks (analytical geometry, upper level algebra, calculus, statistics);
5. Describe the Common Law roots of Boundary Law, its importance in maintaining accurate records and be able to apply those principles in surveying.

Specifically, graduates will:

1. Demonstrate the fundamentals of land surveying;
2. Describe the components and use of Global Positioning Systems (GPS) and Geographical Information Systems (GIS) and be able to gather and analyze data from these systems;
3. Demonstrate and describe competently use spreadsheets and other relevant computer programs (CAD and industry specific software programs) to provide accurate surveying analytics;
4. Demonstrate and apply higher level mathematical concepts that are necessary to complete complex survey tasks (analytical geometry, upper level algebra, calculus, statistics);
5. Describe the Common Law roots of Boundary Law, its importance in maintaining accurate records and be able to apply those principles in surveying.

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 60 semester hours minimum.
• Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**
(15 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
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<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>1</td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
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</table>

**Mathematics**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 130</td>
<td>Trigonometry</td>
<td>3</td>
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</tbody>
</table>

**Other Essential Learning Core Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>PHYS 111</td>
<td>General Physics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111L</td>
<td>General Physics Laboratory-GTSC1</td>
<td>1</td>
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</table>

Select one Social and Behavioral Sciences, Natural Sciences, Fine Arts or Humanities course

Total Semester Credit Hours 15

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
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</tbody>
</table>

Select one Activity course

Total Semester Credit Hours 2

**Program Specific Degree Requirements**
(42 semester hours, must complete with a grade of “C” or higher.)

<table>
<thead>
<tr>
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<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>CADT 107</td>
<td>Advanced Computer Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>CADT 130</td>
<td>CAD-Civil</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 131</td>
<td>Introduction to Cartography</td>
<td>3</td>
</tr>
<tr>
<td>GIST 332</td>
<td>Introduction to Geographic Information Systems</td>
<td>2</td>
</tr>
<tr>
<td>GIST 332L</td>
<td>Introduction to Geographic Information Systems Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MATH 141</td>
<td>Analytical Geometry</td>
<td>3</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>SURV 100</td>
<td>Introduction to Surveying/Field Work</td>
<td>3</td>
</tr>
<tr>
<td>SURV 102</td>
<td>Surveying Calculations I</td>
<td>3</td>
</tr>
<tr>
<td>SURV 200</td>
<td>Advanced Surveying Field Work</td>
<td>4</td>
</tr>
<tr>
<td>SURV 203</td>
<td>Legal Aspects of Surveying</td>
<td>3</td>
</tr>
<tr>
<td>SURV 204</td>
<td>Real Property Descriptions</td>
<td>2</td>
</tr>
<tr>
<td>SURV 205</td>
<td>Advanced Surveying Computations/Calculations</td>
<td>4</td>
</tr>
<tr>
<td>SURV 206</td>
<td>Property Law - Boundary Evidence</td>
<td>3</td>
</tr>
<tr>
<td>SURV 207</td>
<td>Surveying Ethics: An Overview of Ethical Expectations</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 42

**General Electives**

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 60 hours. 1 semester hour.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
</table>

Select elective

Total Semester Credit Hours 1
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

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Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Land Surveying and Geomatics (Technical Certificate)

Degree: Technical Certificate
Program of Study: Land Surveying and Geomatics

About This Major . . .

WCCC/CMU initiate a post-baccalaureate certificate in an on-line format that allows individuals across Colorado – and in surrounding states – to complete 20 hours of surveying-specific course work and a combined internship/capstone project that equates to an additional four credit hours. This certificate would allow students who have a degree, but do not have sufficient surveying-related knowledge and course work to successfully pass the Colorado-required exam to attain a Professional Surveyor License to complete that course work. (Note: These students would still need to prove they had completed the 9 additional math credit hours beyond basic college algebra and geometry not incorporated within the certificate.)

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate the theoretical knowledge and practical skills in the performance of surveying (Specialized knowledge)
2. Demonstrate skills practice according to the Land Surveying and Geomatics curriculum and tools (Applied Learning)
3. Demonstrate the ability to learn and apply math needed in Land Surveying (Quantitative Fluency)
4. Communicate effectively with instructors, surveyors and other individuals in the state and BLM (Communication Fluency)
5. Demonstrate error recognition and the ability to correctly interpret symbols, common and statutory laws in the state (Critical Thinking)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with
your advisor or academic department to determine which catalog year and program requirements you should follow.

- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Certificate Requirements**

(32-33 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 135</td>
<td>Engineering Calculus I</td>
<td>4-5</td>
</tr>
<tr>
<td>or MATH 151</td>
<td>Calculus I-GTMA1</td>
<td></td>
</tr>
<tr>
<td>SURV 100</td>
<td>Introduction to Surveying/Field Work</td>
<td>3</td>
</tr>
<tr>
<td>SURV 102</td>
<td>Surveying Calculations I</td>
<td>3</td>
</tr>
<tr>
<td>SURV 200</td>
<td>Advanced Surveying Field Work</td>
<td>4</td>
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<tr>
<td>SURV 203</td>
<td>Legal Aspects of Surveying</td>
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<td>Real Property Descriptions</td>
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<td>SURV 205</td>
<td>Advanced Surveying Computations/Calculations</td>
<td>4</td>
</tr>
<tr>
<td>SURV 207</td>
<td>Surveying Ethics: An Overview of Ethical Expectations</td>
<td>2</td>
</tr>
<tr>
<td>SURV 298</td>
<td>Internship/Capstone Project</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 32-33

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>SURV 100</td>
<td>Introduction to Surveying/Field Work</td>
<td>3</td>
</tr>
<tr>
<td>SURV 102</td>
<td>Surveying Calculations I</td>
<td>3</td>
</tr>
<tr>
<td>SURV 200</td>
<td>Advanced Surveying Field Work</td>
<td>4</td>
</tr>
<tr>
<td>SURV 203</td>
<td>Legal Aspects of Surveying</td>
<td>3</td>
</tr>
<tr>
<td>SURV 204</td>
<td>Real Property Descriptions</td>
<td>2</td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 135</td>
<td>Engineering Calculus I</td>
<td>4-5</td>
</tr>
<tr>
<td>or MATH 151</td>
<td>Calculus I-GTMA1</td>
<td></td>
</tr>
<tr>
<td>SURV 205</td>
<td>Advanced Surveying Computations/Calculations</td>
<td>4</td>
</tr>
<tr>
<td>SURV 207</td>
<td>Surveying Ethics: An Overview of Ethical Expectations</td>
<td>2</td>
</tr>
<tr>
<td>SURV 298</td>
<td>Internship/Capstone Project</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 18

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
LIBERAL ARTS

(Interdisciplinary Majors)

Program Description
While Colorado Mesa University provides a wide range of programs, the university may not offer a standard bachelor’s degree program that serves a student’s particular need. A liberal arts degree, however, is designed to offer students the opportunity to craft a plan of study to suit their individual career and academic aspirations. Under the direction of an advisor, a liberal arts major will design a coherent program by choosing appropriate courses that focus on a very specific field of study.

Elementary Education Tracks
The Center for Teacher Education offers a comprehensive program of study that leads to licensure in Colorado. Candidates choose a concentration in English, mathematics, or social science. Our professors are experienced, knowledgeable, accessible, and dedicated to the improvement of public education. Faculty offer one-on-one guidance for course selection, field placements, student teaching, and employment. The elementary licensure program provides teacher education candidates with a broad content knowledge and prepares them as teachers for grades kindergarten through six. Please see the elementary education programs of study as well as the Center for Teacher Education’s website (https://www.coloradomesa.edu/teacher-education) for further information on admissions criteria.

Contact Information
Education Option
Center for Teacher Education
Dominguez Hall 109
970.248.1786

General Studies Option
Office of Academic Affairs
LHH 209
970.248.1881

Associates
- Biology, Liberal Arts (AS) (p. 199)
- Business Administration, Liberal Arts (AA) (p. 243)
- Business Computer Information Systems, Liberal Arts (AA) (p. 267)
- Computer Science, Liberal Arts (AS) (p. 276)
- Education: Early Childhood Education, Liberal Arts (AA) (p. 332)
- Geology, Liberal Arts (AS) (p. 436)
- Humanities, Liberal Arts (AA) (p. 469)
- Mathematics, Liberal Arts (AS) (p. 541)
- Physics, Liberal Arts (AS) (p. 619)
- Social Science, Liberal Arts (AA) (p. 650)
- Sport Management, Liberal Arts (AS) (p. 672)
- University Studies, Liberal Arts (AA) (p. 509)

Bachelors/Minors
- Education: Elementary Education, English, Liberal Arts (BA) (p. 495)
- Education: Elementary Education, Mathematics, Liberal Arts (BA) (p. 499)
- Education: Elementary Education, Social Science, Liberal Arts (BA) (p. 502)
- General Studies, Liberal Arts (BA) (p. 506)
- Interdisciplinary Studies, Liberal Arts (BAS) (p. 507)

Education: Elementary Education, English, Liberal Arts (BA)
Degree: Bachelor of Arts
Major: Liberal Arts, Elementary Education
Concentration: English
Program Code: 3291

About This Major . . .
The Center for Teacher Education offers a comprehensive program of study that leads to licensure in Colorado. Our professors are experienced, knowledgeable, accessible, and dedicated to the improvement of public education. At Colorado Mesa University, we pride ourselves on the personal touch. Faculty offer one-on-one guidance for course selection, field placements, student teaching, and employment. Our mission is to develop Educators as Innovators; we are always looking to improve the quality of learning in our programs and K-12 schools.

As a student, you will gradually accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout western Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings.

The elementary licensure program provides teacher education candidates with a broad content knowledge and prepares them as teachers for grades kindergarten through six. A minimum of 60 credit hours of Essential Learning and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education elementary licensure program. Please see the Teacher Education Admission Packet for further information on admissions criteria. EDUC 115 and EDUC 215 must be taken before applying to the program.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

Important information for this program:
- Students must maintain 2.80 cumulative GPA or higher in all CMU coursework
- Foreign language proficiency must be demonstrated by high school course work (2 years), college coursework (2 semesters), or competency testing.
- Students take the PRAXIS II exam in the content area prior to beginning the internship. All other coursework toward the degree must be successfully completed prior to the internship.
- The program requires ENGL 111, ENGL 112, PSYC 233, EDUC 115 and EDUC 215, and MATH 105 (all with a grade of “B” or better) and formal acceptance to the Teacher Education Program.
All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Express themselves effectively in a variety of forms. (Communication Fluency)
2. Support interpretive claims about a variety of texts. (Critical Thinking)
3. Identify the salient features of literary texts from a broad range of English and American literary periods. (Specialized Knowledge)
4. Employ knowledge of literary traditions to produce imaginative writing. (Communication Fluency/Applied Learning)
5. Use research to assist in problem-solving. (Critical Thinking)
6. Demonstrate knowledge of the history or structure of the English language. (Specialized Knowledge)
7. Instruct K-12 students based on self-written learning plans to address individual learning and developmental patterns in English. (Specialized Knowledge)
8. Design a safe and supportive learning environment for elementary and secondary education students. (Applied Learning)
9. Apply English content knowledge while working with learners to access information in real world settings assuring learner mastery of the English language. (Specialized Knowledge)
10. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication. (Critical Thinking/Communication Fluency)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Specific to this degree:**

- 126 semester hours required for the BA in Liberal Arts, Elementary Education, English.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Elements of Mathematics II-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>Select one History course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Humanities Course</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Select one Fine Arts course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one BIOL course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select corresponding BIOL lab</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Select one GEOL course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**

31

1. Must receive a grade of “B” or better and must be completed by the time the student has 60 semester hours.
2. Must be taken after MATH 105.
3. HIST 131 or HIST 132 recommended.
4. ENGL or HIST course recommended.
5. One course must include a lab.

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

**Wellness Requirement**

Select one Activity course

1
Essential Learning Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Program Specific Degree Requirements

(89 semester hours, must earn a grade of “C” or better in each course, unless otherwise noted. Must also maintain a 2.80 cumulative GPA or higher in coursework in this area. A grade of “B” or better is required for all EDUC courses.)

- Students take the PRAXIS II exam in the content area prior to beginning the internship. All other coursework toward the degree must be successfully completed prior to the internship.
- This program requires ENGL 111, ENGL 112, PSYC 233, EDUC 115 and EDUC 215, and MATH 105 (all with a grade of “B” or better) and formal acceptance to the Teacher Education Program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 240</td>
<td>Children’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 343</td>
<td>Language Systems and Linguistic Diversity</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 451</td>
<td>Understanding and Using English Grammar</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Elements of Mathematics I (Must earn a grade of “B” or higher)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 301</td>
<td>Mathematics for Elementary Teachers</td>
<td>3</td>
</tr>
<tr>
<td>KINE 321</td>
<td>Physical Activity and Health in the Classroom</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 210</td>
<td>Introduction to Literary Studies</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 245</td>
<td>Imaginative Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 250</td>
<td>Introduction to Creative Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Upper Division Literature Electives

Select two of the following:

- ENGL 301 Classical Greek and Latin Literature
- ENGL 311 English Medieval Literature
- ENGL 313 English Renaissance Literature
- ENGL 314 American Literature to 1830
- ENGL 315 American Literature 1830-1870
- ENGL 316 American Literature 1870-1900
- ENGL 330 Women in World Thought and Literature
- ENGL 335 The Bible as Literature
- ENGL 355 Shakespeare
- ENGL 365 Literature for Young Adults
- ENGL 370 Major Author
- ENGL 435 American Literature 1900-1945
- ENGL 436 American Literature 1945-Present
- ENGL 438 Ethnic Experiences in U.S. Literature
- ENGL 440 History of the English Language
- ENGL 470 18th Century British Literature
- ENGL 471 British Romanticism
- ENGL 475 Victorian Literature
- ENGL 478 20th Century British Literature

Total Semester Credit Hours 51
### Code | Title | Semester Credit Hours
--- | --- | ---

#### Elementary Education Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 341</td>
<td>Pedagogy and Assessment: K-6/Elementary</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 343</td>
<td>Teaching to Diversity</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 374</td>
<td>Exceptional and English Language Learners in the Inclusive Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 378</td>
<td>Technology for K-12 Educators</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 440</td>
<td>Methods of Teaching Language and Literacy: EC</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 441</td>
<td>Methods of Teaching Language and Literacy: Elementary</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 451</td>
<td>Methods of Teaching Mathematics: Early Childhood/Elementary</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 461</td>
<td>Methods of Teaching Science and Social Studies: Early Childhood/Elementary</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 471</td>
<td>Educational Assessment for the K-12 Educator</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 475</td>
<td>Classroom Management for K-12 Educators</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 499C</td>
<td>Teaching Internship and Colloquia: Elementary</td>
<td>12</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours:** 38

1 Must earn a grade of "B" or better in each courses. (840 field experience hours)

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**Course** | **Title** | **Semester Credit Hours**
--- | --- | ---

#### First Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCD1</td>
<td>3</td>
</tr>
<tr>
<td>POLS 101</td>
<td>American Government-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>KINA Activity</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Geology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCD2</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Elements of Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Elementary Core - Natural Sciences</td>
<td></td>
<td>3</td>
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</tbody>
</table>

**Second Year**

**Fall Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Elements of Mathematics II-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 245 or ENGL 250</td>
<td>Imaginative Writing or Introduction to Creative Writing</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Biology</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Biology Lab</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Elementary Core - Social Sciences</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 240</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
</tbody>
</table>

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Graduation Process
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- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
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- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
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If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Education: Elementary Education, Mathematics, Liberal Arts (BA)
Degree: Bachelor of Arts
Major: Liberal Arts, Elementary Education
Concentration: Mathematics
Program Code: 3491

About This Major . . .
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All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate familiarity with the logical and historical development of mathematics and the implications of this development. (Specialized Knowledge)
2. Demonstrate a deep and coherent proficiency in the mathematics underlying elementary curricula. (Quantitative Fluency)
3. Effectively communicate mathematics using oral and written exposition appropriate for teachers of mathematics. (Communication Fluency)
4. Reason mathematically and communicate precisely using clear definitions, appropriate symbols, correct units of measure with an appropriate degree of precision, proper labels, and coherent chains of logic. (Applied Learning)
5. Instruct K-12 students based on self-written learning plans to address individual learning and developmental patterns. (Specialized Knowledge)
6. Design a safe and supportive learning environment for elementary and secondary education students. (Applied Learning)
7. Apply content knowledge while working with learners to access information in real world settings assuring learner mastery of the content. (Specialized Knowledge)
8. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication. (Critical Thinking/ Communication Fluency)

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• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this degree:
• 126 semester hours required for the BA in Liberal Arts, Elementary Education, Mathematics.

Essential Learning Requirements
(31 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Elements of Mathematics II-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>PSYC 233 Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities Course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one BIOL course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select corresponding BIOL lab</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one GEOL course</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>31</td>
<td></td>
</tr>
</tbody>
</table>

| 1 Must receive a grade of “B” or better and must be completed by the time the student has 60 semester hours. 2 Must be taken after MATH 105. 3 HIST 131 or HIST 132 recommended. 4 ENGL or HIST course recommended. 5 One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Essential Learning Capstone</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Program Specific Degree Requirements
(89 Semester Hours, must earn a grade of “C” or better in each course, unless otherwise noted. Must also maintain a 2.80 cumulative GPA or higher in coursework in this area. A grade of “B” or better is required for all EDUC courses.)
• Students take the PRAXIS II exam in the content area prior to beginning the internship. Also, ALL other coursework toward the degree must be successfully completed prior to the internship.
• This program requires ENGL 111, ENGL 112, PSYC 233, EDUC 115 and EDUC 215, and MATH 105 (all with a grade of “B” or better) and formal acceptance to the Teacher Education Program.

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<tr>
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<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 240</td>
<td>Children’s Literature</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 343</td>
<td>Language Systems and Linguistic Diversity</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 451</td>
<td>Understanding and Using English Grammar</td>
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</tr>
<tr>
<td>MATH 105</td>
<td>Elements of Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 301</td>
<td>Mathematics for Elementary Teachers</td>
<td>3</td>
</tr>
<tr>
<td>KINE 321</td>
<td>Physical Activity and Health in the Classroom</td>
<td>3</td>
</tr>
<tr>
<td>POLS 101</td>
<td>American Government-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>ANTH 202</td>
<td>Introduction to Anthropology-GTSS3</td>
<td></td>
</tr>
<tr>
<td>ARKE 205</td>
<td>Principles of Archaeology - GTSS3</td>
<td></td>
</tr>
<tr>
<td>or ARKE 225 Introduction to North American Archaeology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td></td>
</tr>
<tr>
<td>HIST 101</td>
<td>Western Civilizations-GTHI1</td>
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<tr>
<td>HIST 102</td>
<td>Western Civilizations-GTHI1</td>
<td></td>
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<tr>
<td>HIST 131</td>
<td>United States History-GTHI1</td>
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<tr>
<td>Code</td>
<td>Title</td>
<td>Semester Credit Hours</td>
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<tr>
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</tr>
<tr>
<td>HIST 132</td>
<td>United States History-GTHI1</td>
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</tr>
<tr>
<td>HIST 225</td>
<td>History of Colorado</td>
<td></td>
</tr>
<tr>
<td>HIST 315</td>
<td>American Indian History</td>
<td></td>
</tr>
<tr>
<td>HIST 316</td>
<td>American Slavery</td>
<td></td>
</tr>
<tr>
<td>HIST 320</td>
<td>The American West</td>
<td></td>
</tr>
<tr>
<td>HIST 331</td>
<td>The 20th Century</td>
<td></td>
</tr>
<tr>
<td>HIST 344</td>
<td>The Age of Industry in America</td>
<td></td>
</tr>
<tr>
<td>HIST 345</td>
<td>History of Immigration, Race, and Ethnicity in America</td>
<td></td>
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<tr>
<td>GEOG 102</td>
<td>Human Geography-GTSS2</td>
<td></td>
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<tr>
<td>or GEOG 103</td>
<td>World Regional Geography-GTSS2</td>
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**Science**
Select two Natural Science courses from approved Essential Learning list or BIOL 209 or BIOL 210

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ARTD 410</td>
<td>Elementary Art Education Methods</td>
<td>3</td>
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</tbody>
</table>

**Elementary Education Concentration: Mathematics**

**Math Content Area Required Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
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<tr>
<td>CSCI 305</td>
<td>Technology for Mathematics Educators</td>
<td>3</td>
</tr>
<tr>
<td>or CSCI 110</td>
<td>Beginning Programming</td>
<td></td>
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<tr>
<td>MATH 151</td>
<td>Calculus I-GTMA1</td>
<td>5</td>
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<tr>
<td>or MATH 146</td>
<td>Calculus for Biological Sciences</td>
<td></td>
</tr>
<tr>
<td>MATH 389</td>
<td>Explorations in Mathematics for Elementary Educators</td>
<td>1</td>
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</table>

**Concentration Elective**
Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>MATH 305</td>
<td>Euclidean Geometry</td>
<td>3</td>
</tr>
<tr>
<td>MATH 340</td>
<td>Ethnomathematics</td>
<td></td>
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<tr>
<td>MATH 369</td>
<td>Discrete Structures I</td>
<td></td>
</tr>
<tr>
<td>STAT 311</td>
<td>Statistical Methods</td>
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</table>

**Total Semester Credit Hours**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>EDUC 499C</td>
<td>Teaching Internship and Colloquia: Elementary</td>
<td>12</td>
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**First Year**

**Fall Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>POLS 101</td>
<td>American Government-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>KINA Activity</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Geology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td>3</td>
<td></td>
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</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Elements of Mathematics I</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
<td>1</td>
</tr>
<tr>
<td>Elementary Core - Natural Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Science</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Second Year**

**Fall Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession</td>
<td>1</td>
</tr>
<tr>
<td>MATH 205</td>
<td>Elements of Mathematics II-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>Elementary Core - Social Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Biology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Biology Lab</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 240</td>
<td>Children's Literature</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GTMA1</td>
<td>5</td>
</tr>
<tr>
<td>or MATH 146</td>
<td>Calculus for Biological Sciences</td>
<td></td>
</tr>
<tr>
<td>Elementary Core - Social Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elementary Core - Natural Science</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Third Year**

**Fall Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 341</td>
<td>Pedagogy and Assessment: K-6/Elementary</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 342</td>
<td>Teaching to Diversity</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 343</td>
<td>Language Systems and Linguistic Diversity</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>MATH 301</td>
<td>Mathematics for Elementary Teachers</td>
<td>3</td>
</tr>
<tr>
<td>MATH - Concentration Course</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 305</td>
<td>Technology for Mathematics Educators</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 341</td>
<td>Pedagogy and Assessment: K-6/Elementary</td>
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<td>MATH 301</td>
<td>Mathematics for Elementary Teachers</td>
<td>3</td>
</tr>
<tr>
<td>MATH - Concentration Course</td>
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<td></td>
</tr>
</tbody>
</table>

**Must earn a grade of "B" or higher.**

**880 field experience hours.**

**Program Requirements:** ENGL 111, ENGL 112, PSYC 233, EDUC 115 and EDUC 215, and MATH 105 and formal acceptance to the Teacher Education Program.

**All EDUC prefix courses listed above must be completed with a grade of B or better to progress through the program sequence.**
If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Education: Elementary Education, Social Science, Liberal Arts (BA)

Degree: Bachelor of Arts
Major: Liberal Arts, Elementary Education
Concentration: Social Science
Program Code: 3791

About This Major . . .

The Center for Teacher Education offers a comprehensive program of study that leads to licensure in Colorado. Our professors are experienced, knowledgeable, accessible, and dedicated to the improvement of public education. At Colorado Mesa University, we pride ourselves on the personal touch. Faculty offer one-on-one guidance for course selection, field placements, student teaching, and employment. Our mission is to develop Educators as Innovators; we are always looking to improve the quality of learning in our programs and K-12 schools.

As a student, you will gradually accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout western Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings.

The elementary licensure program provides teacher education candidates with a broad content knowledge and prepares them as teachers for grades kindergarten through six. A minimum of 60 credit hours of Essential Learning and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education elementary licensure program. Please see the Teacher Education Admission Packet for further information on admissions criteria. EDUC 115 and EDUC 215 must be taken before applying to the program.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

Important information for this program:

- Students must maintain 2.80 cumulative GPA or higher in all CMU coursework.
- Foreign language proficiency must be demonstrated by high school course work (2 years), college coursework (2 semesters), or competency testing.
- Students take the PRAXIS II exam in the content area prior to beginning the internship. All other coursework toward the degree must be successfully completed prior to the internship.
- The program requires ENGL 111, ENGL 112, PSYC 233, EDUC 115 and EDUC 215, and MATH 105 (all with a grade of "B" or better) and formal acceptance to the Teacher Education Program.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate understanding that learning and developmental patterns vary among individuals, that learners bring unique individual...
differences to the learning process, and that learners need supportive and safe learning environments to thrive.

2. Apply content knowledge as they work with learners to access information, apply knowledge in real world settings, and address meaningful issues to assure learner mastery of the content.

3. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication.


5. Synthesize concepts and research methods from different social science disciplines and apply these to particular social issues.

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
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- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this degree:

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Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

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<th>Semester Credit Hours</th>
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<td>Elements of Mathematics II-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

1. Must receive a grade of “B” or better and must be completed by the time the student has 60 semester hours.
2. Must be taken after MATH 105.
3. HIST 131 or HIST 132 recommended.
4. ENGL or HIST course recommended.
5. One course must include a lab.

Other Lower Division Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
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<td>3</td>
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<tr>
<td>ENGL 343</td>
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<td>3</td>
</tr>
<tr>
<td>ENGL 451</td>
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<td>3</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Elements of Mathematics 1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 301</td>
<td>Mathematics for Elementary Teachers</td>
<td>3</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>POLS 101</td>
<td>American Government-GTSS1</td>
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</tr>
<tr>
<td>ARKE 205</td>
<td>Principles of Archaeology - GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>or ARKE 225</td>
<td>Introduction to North American Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 101</td>
<td>Western Civilizations-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 131</td>
<td>United States History-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>HIST 225</td>
<td>History of Colorado</td>
<td>3</td>
</tr>
<tr>
<td>HIST 315</td>
<td>American Indian History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 316</td>
<td>American Slavery</td>
<td>3</td>
</tr>
<tr>
<td>HIST 320</td>
<td>The American West</td>
<td>3</td>
</tr>
<tr>
<td>HIST 331</td>
<td>The 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 344</td>
<td>The Age of Industry in America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 345</td>
<td>History of Immigration, Race, and Ethnicity in America</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 102</td>
<td>Human Geography-GTSS2</td>
<td>3</td>
</tr>
<tr>
<td>or GEOG 103</td>
<td>World Regional Geography-GTSS2</td>
<td>3</td>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ARTD 410</td>
<td>Elementary Art Education Methods</td>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 102</td>
<td>Western Civilizations-GTHI1</td>
<td>3</td>
</tr>
<tr>
<td>ANTH 202</td>
<td>Introduction to Anthropology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>POLS 236</td>
<td>State and Local Government</td>
<td>3</td>
</tr>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>HIST 300</td>
<td>History of England to 1660</td>
<td>3</td>
</tr>
<tr>
<td>HIST 301</td>
<td>History of Modern Britain</td>
<td>3</td>
</tr>
<tr>
<td>HIST 302</td>
<td>History of Modern France</td>
<td>3</td>
</tr>
<tr>
<td>HIST 303</td>
<td>History of Modern Germany</td>
<td>3</td>
</tr>
<tr>
<td>HIST 330</td>
<td>History of 19th Century Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 331</td>
<td>The 20th Century</td>
<td>3</td>
</tr>
<tr>
<td>HIST 350</td>
<td>Renaissance and Reformation</td>
<td>3</td>
</tr>
<tr>
<td>HIST 360</td>
<td>Medieval Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 400</td>
<td>The Soviet Union and Eastern Europe</td>
<td>3</td>
</tr>
<tr>
<td>HIST 430</td>
<td>The Ancient Mediterranean World</td>
<td>3</td>
</tr>
<tr>
<td>HIST 445</td>
<td>The Holocaust</td>
<td>3</td>
</tr>
<tr>
<td>HIST 450</td>
<td>European History and Film</td>
<td>3</td>
</tr>
<tr>
<td>HIST 310</td>
<td>Latin American Civilization</td>
<td>3</td>
</tr>
<tr>
<td>HIST 333</td>
<td>The International History of the Cold War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 334</td>
<td>History of the British Empire</td>
<td>3</td>
</tr>
<tr>
<td>HIST 340</td>
<td>History Of the Middle East</td>
<td>3</td>
</tr>
<tr>
<td>HIST 403</td>
<td>East Asia and the Modern World</td>
<td>3</td>
</tr>
<tr>
<td>HIST 406</td>
<td>History of the African Continent</td>
<td>3</td>
</tr>
<tr>
<td>HIST 305</td>
<td>The Old South</td>
<td>3</td>
</tr>
<tr>
<td>HIST 342</td>
<td>The Early American Republic</td>
<td>3</td>
</tr>
<tr>
<td>HIST 344</td>
<td>The Age of Industry in America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 345</td>
<td>History of Immigration, Race, and Ethnicity in America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 346</td>
<td>The United States in the 1950's and 1960's</td>
<td>3</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Early United States Women's History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 371</td>
<td>20th Century United States Women's History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 415</td>
<td>Colonial America</td>
<td>3</td>
</tr>
<tr>
<td>HIST 416</td>
<td>The American Revolution</td>
<td>3</td>
</tr>
<tr>
<td>HIST 420</td>
<td>Civil War</td>
<td>3</td>
</tr>
<tr>
<td>HIST 315</td>
<td>American Indian History</td>
<td>3</td>
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<tr>
<td>HIST 316</td>
<td>American Slavery</td>
<td>3</td>
</tr>
<tr>
<td>HIST 320</td>
<td>The American West</td>
<td>3</td>
</tr>
<tr>
<td>HIST 332</td>
<td>History of Modern Warfare</td>
<td>3</td>
</tr>
<tr>
<td>HIST 355</td>
<td>Ancient and Medieval Cities</td>
<td>3</td>
</tr>
<tr>
<td>HIST 375</td>
<td>American Sport History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 394</td>
<td>Junior Seminar in Historiography</td>
<td>3</td>
</tr>
<tr>
<td>HIST 396</td>
<td>Topics</td>
<td>3</td>
</tr>
<tr>
<td>HIST 405</td>
<td>Introduction to Public History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 410</td>
<td>Environmental History of the United States</td>
<td>3</td>
</tr>
<tr>
<td>HIST 425</td>
<td>History of Sexuality</td>
<td>3</td>
</tr>
<tr>
<td>HIST 435</td>
<td>Classical Archaeology</td>
<td>3</td>
</tr>
<tr>
<td>HIST 496</td>
<td>Topics</td>
<td>3</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 341</td>
<td>Pedagogy and Assessment: K-6/Elementary</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 343</td>
<td>Teaching to Diversity</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 374</td>
<td>Exceptional and English Language Learners in the Inclusive Classroom</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 378</td>
<td>Technology for K12 Educators</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 440</td>
<td>Methods of Teaching Language and Literacy: EC</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 441</td>
<td>Methods of Teaching Language and Literacy: Elementary</td>
<td>3</td>
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</tbody>
</table>
EDUC 451  Methods of Teaching Mathematics: Early Childhood/Elementary 3
EDUC 461  Methods of Teaching Science and Social Studies: Early Childhood/Elementary 3
EDUC 471  Educational Assessment for the K-12 Educator 1
EDUC 475  Classroom Management for K-12 Educators 1
EDUC 499C  Teaching Internship and Colloquia: Elementary 12

Total Semester Credit Hours 38

1 Must earn a grade of “B” or higher.
2 840 field experience hours.
3 Program Requirements: ENGL 111, ENGL 112, PSYC 233, EDUC 115 and EDUC 215, and MATH 105 (all with a grade of B or better) and formal acceptance to the Teacher Education Program.
4 All EDUC prefix courses must be completed with a grade of B or better to progress through the program sequence.

Course Title Semester Credit Hours
First Year Fall Semester
ENGL 111  English Composition-GTO01 3
POLS 101  American Government-GTSS1 3
KINA Activity 1

Essential Learning - Fine Arts 3
Essential Learning - Geology 3
Essential Learning - History 3

Semester Credit Hours 16

Spring Semester
EDUC 115  What It Means To Be An Educator 1
ENGL 112  English Composition-GTO02 3
KINE 100  Health and Wellness 1
MATH 105  Elements of Mathematics I 3

Essential Learning - Humanities 3
Essential Learning - Social and Behavioral Sciences 3
Elementary Core - Natural Sciences 3

Semester Credit Hours 17

Second Year Fall Semester
HIST 102  Western Civilizations-GTH11 3
PSYC 233  Human Growth and Development-GTSS3 3
MATH 205  Elements of Mathematics II-GTMA1 3

Essential Learning - Biology 3
Essential Learning - Biology Lab 1
Elementary Core - Social Sciences 3

Semester Credit Hours 16

Spring Semester
ANTH 202  Introduction to Anthropology-GTSS3 3
EDUC 215  Teaching as a Profession 1
ENGL 240  Children’s Literature 3
ESSL 290  Maverick Milestone 3
ESSL 200  Essential Speech 1

Elementary Core - Social Sciences 3
Elementary Core - Natural Sciences 3

Semester Credit Hours 17

Third Year Fall Semester
EDUC 341  Pedagogy and Assessment: K-6/Elementary 3
EDUC 343  Teaching to Diversity 3

Spring Semester
EDUC 374  Exceptional and English Language Learners in the Inclusive Classroom 3
EDUC 378  Technology for K-12 Educators 1
EDUC 440  Methods of Teaching Language and Literacy: EC 3
ENGL 451  Understanding and Using English Grammar 3
KINE 321  Physical Activity and Health in the Classroom 3

Social Science Concentration Course 3

Semester Credit Hours 16

Fourth Year
Fall Semester
ARTD 410  Elementary Art Education Methods 3
EDUC 441  Methods of Teaching Language and Literacy: Elementary 3
EDUC 451  Methods of Teaching Mathematics: Early Childhood/Elementary 3
EDUC 461  Methods of Teaching Science and Social Studies: Early Childhood/Elementary 3
EDUC 471  Educational Assessment for the K-12 Educator 1

Semester Credit Hours 13

Spring Semester
EDUC 499C  Teaching Internship and Colloquia: Elementary 12
EDUC 475  Classroom Management for K-12 Educators 1

Semester Credit Hours 13

Total Semester Credit Hours 126

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

General Studies, Liberal Arts (BA)

Degree: Bachelor of Arts
Major: Liberal Arts - General Studies
Program Code: 3250

About This Major . . .

While Colorado Mesa University provides a wide range of programs, the university may not offer a standard bachelor's degree program that serves a student's particular need. A liberal arts degree, however, is designed to offer a student the opportunity to craft a plan of study to suit his/her individual career and academic aspirations. Under the direction of an advisor, a liberal arts major will design a coherent program by choosing appropriate courses that focus on a very specific field of study.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Evaluate the interconnections of knowledge within and across at least two major disciplines;
2. Synthesize insights, content, and/or methodologies of two or more major disciplines
3. Develop solutions to specific problems by drawing from several relevant fields of study
4. Effectively defend conclusions in verbal and written presentations

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
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<td>31</td>
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</table>

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

Other Lower Division Requirements

Wellness Requirement

<table>
<thead>
<tr>
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<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
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<td>Select one Activity course</td>
<td></td>
<td>1</td>
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</table>

Essential Learning Capstone 1
Foundation Courses
(6 semester hours, must earn a "C" or better in each course)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Two consecutive classes in the same foreign language</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Program Specific Degree Requirements
(40 semester hours, must maintain a 2.00 cumulative GPA or higher in coursework in this area)

- Before declaring a Liberal Arts—General Studies major, the student must have the permission of an academic advisor, who will also work with the student in constructing an appropriate course of study and Capstone Experience.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Capstone Experience</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Other Upper Division Courses</td>
<td>37</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 40

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html. If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Interdisciplinary Studies, Liberal Arts (BAS)
Degree: Bachelor of Applied Science
Major: Interdisciplinary Studies
Program Code: 3050

About This Major . . .
The Bachelor of Applied Science in Interdisciplinary Studies builds upon a technical specialty to hone the critical thinking, communication, and problem-solving skills necessary to move into leadership positions in any industry. By completing the full Essential Learning curriculum, including the Essential Learning Capstone, students will gain exposure to multiple disciplines and ways of approaching problems. Students will work with an advisor to identify upper-division courses that will best meet their interests and career goals. The BAS in Interdisciplinary Studies is a path for two-year technical degree graduates to earn a 4-year degree in approximately four additional full-time semesters, depending upon prior coursework. Upon completion of the program, students will be technically and academically prepared for leadership positions in their chosen field.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.
faculty member in her or his chosen focus area indicating a course sequencing for the focus area as well as a broad description of the student’s summative project. Upon approval by an Assistant Vice-President for Academic Affairs, the student will be declared a BAS: Interdisciplinary Studies major, and the faculty recommender will be assigned as academic advisor. Changes to the course sequencing provided in the letter will require approval by the academic advisor.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Construct a summative project, paper or practiced-based performance that draws on current research, scholarship and/or techniques, and specialized knowledge in a discipline (communication; specialized knowledge/applied learning).
2. Integrate knowledge between their applied field and one other discipline (critical thinking).
3. Describe reasoned conclusions that articulate the implications and consequences for a particular decision by synthesizing information and methodologies (critical thinking).

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU Bachelor of Applied Science (BAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 33 upper-division credits.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements. The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td></td>
<td></td>
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<tr>
<td>Select one History course</td>
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<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Humanities course</td>
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<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
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</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Fine Arts course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Natural Sciences course with a lab</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

1 Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wellness Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning Capstone 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

**Program Specific Degree Requirements**

(69 semester hours)

**Associate of Applied Science Technical Coursework**

To be admitted to the BAS, a student must have earned an Associate of Applied Science (AAS) degree. Thirty-six (36) hours from the technical coursework of that AAS degree transfer into the BAS as a block of courses.
Code | Title | Semester Credit Hours
---|---|---
Credits from prior qualifying AAS | 36

**Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
</table>

**Focus Area**
Select 12 upper-division credits from one field of study

**Summative Experience**
An upper-division internship, practicum, independent study or coursework that connects the focus area with the technical coursework

**Upper Division Electives**
Select 18 credits of upper division electives

**Total Semester Credit Hours**
33

1 As approved by a faculty advisor.

**General Electives**
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 14 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
</table>

**Advising Process and DegreeWorks**
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audits on a regular basis and should discuss questions or concerns with their advisors or academic department heads. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**
Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**University Studies, Liberal Arts (AA)**
Degree: Associate of Arts
Major: Liberal Arts
Emphasis: University Studies
Program Code: 2050

**About This Major . . .**
The Associate of Arts (AA) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The AA is the appropriate choice for students who will take upper division coursework in the arts, humanities, or social and behavioral sciences. The degree program includes the Colorado Statewide General Education Core and meets the lower-division general education requirements at most public institutions in Colorado. The University Studies emphasis, by offering a broad range of flexibility in elective courses, provides an opportunity for students who may be potentially exploring their career and major options without regard to a particular disciplinary track.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Locate, gather and organize evidence on an assigned topic addressing a course or discipline-related question or a question of practice in a work or community setting (specialized knowledge/applied learning);
2. Use program-level mathematical concepts and methods to understand, analyze, and explain issues in quantitative terms (quantitative fluency);
3. Make and defend claims in a well-organized, professional document and/or oral presentation that is appropriate for a specific audience (communication fluency);
4. Identify and gather the information/data relevant to the essential question, issue and/or problem and develop informed conclusions (critical thinking).

**Institutional Degree Requirements**
The following institutional degree requirements apply to all CMU or WCCC Associate of Arts (AA) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours total.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A grade of “C” or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado’s guaranteed transfer program.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 15 semester credit hours for an AA degree. A maximum of 6 of the 15 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English 1</td>
<td>ENGL 111 English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGL 112 English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics 1</td>
<td>MATH 110 College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences 2</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

1. Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2. One course must include a lab.

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wellness Requirement</td>
<td>KINE 100 Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

### Program Specific Degree Requirements
(27 semester hours of general electives)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select electives</td>
<td></td>
<td>27</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>27</td>
</tr>
</tbody>
</table>

### First Year

| Fall Semester | ENGL 111 English Composition-GTCO1 | 3 |
|               | Essential Learning - Mathematics    | 3 |
|               | Essential Learning - Social and Behavioral Sciences | 3   |
|               | Essential Learning - Natural Sciences without lab | 3 |
|               | General Elective                    | 3 |
| Total Semester Credit Hours |                                | 15                 |

| Spring Semester | ENGL 112 English Composition-GTCO2 | 3 |
|                 | KINE 100 Health and Wellness       | 1 |
| Wellness Requirement - Activities Course |            | 1             |
| Essential Learning - Natural Sciences with lab | 4            |
| General Electives |                                | 6             |
| Total Semester Credit Hours |                                | 15                 |

### Second Year

| Fall Semester | Essential Learning - Fine Arts      | 3 |
|               | Essential Learning - Social and Behavioral Sciences | 3   |
|               | General Elective                    | 3 |
|               | General Elective                    | 3 |
| Total Semester Credit Hours |                                | 15                 |

| Spring Semester | Essential Learning - Humanities   | 3 |
| General Elective |                                | 3 |
| General Elective |                                | 3 |
| General Elective |                                | 3 |
| Total Semester Credit Hours |                                | 15                 |

| Total Semester Credit Hours |                                | 60                 |
Students that intend to continue with Colorado Mesa University for baccalaureate study should take ESSL 290 and ESSL 200 during the final semester of their Associate of Arts work.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
MANUFACTURING TECHNOLOGY

Program Description

Computer-Aided Design Technology
The Computer Aided Design program prepares the student for employment in Mechanical, Architectural and Civil Design. Through the use of current CAD software, students will build their skill level beginning with two dimensional drawings and working their way up to three dimensional solid based modeling. With the majority of the work completed on the computer and a project in the area of student’s interest which ties the course to real world concepts. Career options include Architectural Drafter/Designer, Mechanical Drafter/ Designer and Civil Drafter/Designer.

Machine and Manufacturing Trades
The machining and manufacturing trades specialization offers classroom instruction and related lab work with hands-on activities in the use of tools and the operation of equipment found in manufacturing. Students work in the area of blueprint reading, computer numerical control (CNC), machining, general machining and maintenance, CAD and related mathematics. The program is designed to meet competency-based standards set by the industry. Attitude and quality of workmanship are stressed. Career options include entry level machinist, computer-numerical control operator, numerical tool and process technician, manufacturing engineering technician and manufacturing inspection technician.

Machining Technology
The Associate of Applied Science with the manufacturing technology major offers classroom instruction and related lab work with hands-on activities in the use of tools and the operation of equipment found in manufacturing. In the machining technology emphasis students learn to apply industrial knowledge and skills to plan and implement designs, operate manual mills and lathes, operate computer-aided machinery with CAD/CAM software and computer-numerical controlled (CNC) machines. Students also develop the skills that enable them to read blueprints, apply appropriate mathematical concepts and understand the properties of metal and polymers. This course of study is designed to meet competency-based standards set by the manufacturing industry. With this degree, students will be qualified for the following employment opportunities: entry-level machinist, computer-numerical control operator, numerical tool and process technician, manufacturing engineering technician and manufacturing inspection technician.

Welding Technology
The welding technology program is designed to provide training and opportunity to become proficient at SMAW, GMAW, GTAW, FCAW, OAW, OAC, PAC, CAC-A on plate, and Robotic Welding with state-of-the-art welding instruction. This program offers classroom lecture and related lab work. Students study welding, cutting, layout, fabrication and technical math. Safety, attitude and quality of workmanship are stressed throughout this course. The welding certificate prepares students for entry-level placement in a wide range of jobs in the welding industry and is designed to meet competency based standards set by the American Welding Society. This program trains students to become certified AWS, API, ASME welders in the welding industry.

The welding technology AAS degree prepares students for advanced level placement in a wide range of jobs in the welding industry and is designed to meet competency based standards set by the American Welding Society.

Special Requirements
Physical requirements on the job include the ability to lift up to 50 pounds regularly and to stand for long periods of time while doing machine work. Average hearing and eyesight, natural or corrected, is desirable.

Certificate programs are designed to be employment directed for beginning level jobs. Students should check with a welding instructor/advisor about options for specialized employment training requiring a shorter period of training.

The Associate of Applied Science degree program includes many of the same technical courses as the technical certificate. Also included are mathematics and management courses that are essential for job advancement to more technical levels after employment.

Courses are designed to give students an adequate knowledge of metals, layout work and welding processes, along with an opportunity to gain manipulative skills and the related information needed to enter and progress in various welding occupations. Instruction and shop practice is offered in SMAW, GMAW, FCAW and GTAW of mild steel in all positions as well as pipe and specialty welding. Various cutting and fabrication methods are included. Students can arrange work experience as an elective part of the regular program after completing two semesters or more.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
• Computer Aided Design Technology, Manufacturing Technology (AAS) (p. 512)
• Machining Technology, Manufacturing Technology (AAS) (p. 515)
• Welding Technology, Manufacturing Technology (AAS) (p. 517)

Certificates
• Basic Welder, Manufacturing Technology (Technical Certificate) (p. 518)
• Computer Aided Design Technology, Manufacturing Technology (Technical Certificate) (p. 520)
• Computer Aided Design/Computer Aided Manufacturing (CAD/CAM), Manufacturing Technology (Technical Certificate) (p. 521)
• Machine and Manufacturing Trades, Manufacturing Technology (Technical Certificate) (p. 522)
• Welding Technology, Manufacturing Technology (Technical Certificate) (p. 523)

Computer Aided Design Technology, Manufacturing Technology (AAS)
Degree: Associate of Applied Science
Major: Manufacturing Technology
About This Major . . .
Through the use of freehand sketching and Computer Aided Drafting (CAD), the student will learn the techniques of basic drafting principles and methods used in today's engineering fields. Drafting concepts and the processes of orthographic projection, pictorial drawing, dimensioning, and geometric construction will be explored by hand and with CAD software and equipment. The majority of the student's work will be completed on the computer. A project in the area of the student's interest will tie the course to real world concepts.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a CAD technician (interviewing clients and communicating with constituents). (Communication Fluency)
2. Apply mathematical concepts and practices that are required to properly perform calculation for design. (Quantitative Fluency)
3. Interview clients, to help decide on materials, size and design, based on client's needs and students' knowledge of the industry. (Critical thinking)
4. Demonstrate mastery of terminology in the Engineering, Architectural, Civil and Technical drafting industry. (Specialized Knowledge)
5. Generate substantially error-free plans that define the duties of a CAD technician. Produce industry standard drawings in various platforms (Engineering, Architectural, Civil and Technical). (Applied Learning)
6. Demonstrate personal and professional ethical behavior as applied to the Computer Aided Design industry. (Specialized Knowledge)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:
- 71 semester hours total for the AAS, Manufacturing Technology, Computer Aided Design Technology.

Essential Learning Requirements
(15 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td></td>
</tr>
</tbody>
</table>

Mathematics
MATH 113 | College Algebra-GTMA1 1 | 3 |

Other Essential Learning Core Courses
Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course | 3 |
Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course | 3 |

Total Semester Credit Hours | 15 |

1 This is a 4 semester credit hour course. 3 credits apply to the Essential Learning requirements and 1 credit applies to general elective credit.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours | 2 |

Program Specific Degree Requirements
(48 semester hours, a “C” or better must be achieved in coursework in this area.)
### Computer Aided Design Technology, Manufacturing Technology (AAS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CADT 101</td>
<td>Introduction to Computers</td>
<td>1</td>
</tr>
<tr>
<td>CONC 104</td>
<td>Architectural/Civil Print Reading</td>
<td>2</td>
</tr>
<tr>
<td>CADT 106</td>
<td>Computer Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>CADT 107</td>
<td>Advanced Computer Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>CADT 108</td>
<td>CAD - Mechanical</td>
<td>3</td>
</tr>
<tr>
<td>CADT 109</td>
<td>CAD-Mechanical Advanced</td>
<td>3</td>
</tr>
<tr>
<td>CADT 110</td>
<td>CAD Application</td>
<td>4</td>
</tr>
<tr>
<td>CADT 210</td>
<td>Project</td>
<td>3</td>
</tr>
<tr>
<td>CADT 130</td>
<td>CAD-Civil</td>
<td>3</td>
</tr>
<tr>
<td>CADT 135</td>
<td>CAD Civil II</td>
<td>3</td>
</tr>
<tr>
<td>CADT 140</td>
<td>CAD - Architectural Theory</td>
<td>2</td>
</tr>
<tr>
<td>CADT 141</td>
<td>Structural Materials</td>
<td>3</td>
</tr>
<tr>
<td>CADT 142</td>
<td>CAD - Residential Architecture</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 101</td>
<td>Introduction to Manufacturing</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 105</td>
<td>Print Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 106</td>
<td>Geometric Tolerancing</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 115</td>
<td>Introduction to Machine Shop or WELD 151</td>
<td>3</td>
</tr>
</tbody>
</table>

**General Electives**

(6 semesters hours - Consult with an advisor.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select additional electives</td>
<td>5</td>
</tr>
</tbody>
</table>

**Second Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGL 112 English Composition-GTCO2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPCH 101 Interpersonal Communications</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPCH 102 Speechmaking</td>
<td></td>
</tr>
<tr>
<td></td>
<td>CADT 140 CAD - Architectural Theory</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>CADT 141 Structural Materials</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CADT 142 CAD - Residential Architecture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CADT 130 CAD-Civil</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective (selected in consultation with advisor)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring</td>
<td>CADT 110 CAD Application</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>CADT 210 Project</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CADT 135 CAD Civil II</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>CADT 143 CAD-Commercial Architecture</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social Science, Natural Science, Fine Arts or Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KINA 1XX Activity</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>KINE 100 Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).
If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

**Machining Technology, Manufacturing Technology (AAS)**

Degree: Associate of Applied Science  
Major: Manufacturing Technology  
Emphasis: Machining Technology  
Program Code: 1331

**About This Major . . .**

The Associate of Applied Science with the Manufacturing Technology major offers classroom instruction and related lab work with hands-on activities in the use of tools and the operation of equipment found in manufacturing. In the Machining Technology emphasis students learn to apply industrial knowledge and skills to plan and implement designs, operate manual mills and lathes, operate computer-aided machinery with CAD/CAM software, and computer-numerical controlled (CNC) machines. Students also develop the skills that enable them to read blueprints, apply appropriate mathematical concepts, and understand the properties of metal and polymers. This course of study is designed to meet competency-based standards set by the manufacturing industry. With this degree, students will be qualified for the following employment opportunities: entry-level machinist, computer-numerical control operator, numerical tool and process technician, manufacturing engineering technician, and manufacturing inspection technician.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Use written and oral communication skills needed for entry level employment in the manufacturing industry. (Communication Fluency)
2. Apply mathematical concepts to perform machining tasks. (Quantitative Fluency)
3. Distinguish between tolerances and dimensions, as used in the machining industry. (Critical Thinking)
4. Summarize business practices, principles and application of associated technical skill in the machining in industry. (Specialized Knowledge)
5. Apply the necessary machining skill sets to perform specified manufacturing processes. (Applied Learning)
6. Determine ethical and civil responsibility necessary for employees in the machining industry. (Specialized Knowledge)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Specific to this program:**
- 61 semester hours total for the AAS, Manufacturing Technology - Machining Technology.

**Essential Learning Requirements**

(15 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTC01</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTC02</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td></td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other Essential Learning Core Courses**

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course  
Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course  

**Total Semester Credit Hours**  
15

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>
Select one Activity course 1
Total Semester Credit Hours 2

Program Specific Degree Requirements
(44 semester hours, must earn a grade of "C" or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 125</td>
<td>Computer-Aided Design and Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>or CADT 109</td>
<td>CAD-Mechanical Advanced</td>
<td></td>
</tr>
<tr>
<td>MAMT 101</td>
<td>Introduction to Manufacturing</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 105</td>
<td>Print Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 106</td>
<td>Geometric Tolerancing</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 115</td>
<td>Introduction to Machine Shop</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 120</td>
<td>Machine Technology I</td>
<td>4</td>
</tr>
<tr>
<td>MAMT 125</td>
<td>Machine Technology II</td>
<td>4</td>
</tr>
<tr>
<td>MAMT 230</td>
<td>Machine Technology III</td>
<td>4</td>
</tr>
<tr>
<td>MAMT 240</td>
<td>Job Shop Machining II</td>
<td>3</td>
</tr>
<tr>
<td>or MAMT 170</td>
<td>Practical Applications</td>
<td></td>
</tr>
<tr>
<td>MAMT 148</td>
<td>CNC Applications</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 251</td>
<td>CNC Machining I</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 255</td>
<td>CNC Machining II</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 260</td>
<td>Properties of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 207</td>
<td>Introduction to Statistical Process Control</td>
<td>2</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>41</td>
</tr>
</tbody>
</table>

Restricted Electives
Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD 151</td>
<td>Introduction to Welding</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 220</td>
<td>Workplace Skills</td>
<td></td>
</tr>
<tr>
<td>CADT 108</td>
<td>CAD - Mechanical</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

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Graduation Process
Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
Welding Technology, Manufacturing Technology (AAS)

Degree: Associate of Applied Science
Major: Manufacturing Technology
Emphasis: Welding Technology
Program Code: 1332

About This Major . . .

This Welding Technology Degree program is designed to provide training and opportunity to become proficient at SMAW, GMAW, GTAW, FCAW, OAC, PAC, blueprint reading, pipe welding, fabrication, automation, layout, mathematics, and safety. This program offers classroom lecture and related lab work. Students study welding, cutting, layout, fabrication and technical math. Safety, attitude and quality of workmanship are stressed throughout this course. The welding AAS degree prepares students for advanced level placement in a wide range of jobs in the welding industry and is designed to meet competency based standards set by the American Welding Society. This program prepares students to become AWS certified welders.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written forms that are needed for entry level employment in the industry. (Communication Fluency)
2. Apply Mathematical concepts for the Welding industry to meet entry level employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to the welding industry. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, principles and application of associated technical skills in the industry. (Specialized Knowledge)
5. Perform the necessary applied welding skill sets to fulfill the needs of entry level employment. (Applied Learning)
6. Demonstrate ethical and civic responsibility necessary for employees in the welding industry. (Specialized Knowledge)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:

- 65 semester hours total for the AAS, Manufacturing Technology - Welding Technology.

Essential Learning Requirements

(15 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics

<table>
<thead>
<tr>
<th>Code</th>
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<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 107</td>
<td>Career Math (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Essential Learning Core Courses

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Total Semester Credit Hours 15

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 2

Program Specific Degree Requirements

(48 semester hours, must earn a grade of “C” or better in each course.)

- Students in Welding may be required to purchase approximately $500.00 in tools and personal safety welding equipment. This does
not include required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CADT 101</td>
<td>Introduction to Computers</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>ELCE 124</td>
<td>Electrical Safety</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>MAMT 105</td>
<td>Print Reading and Sketching</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 101</td>
<td>Introduction to Manufacturing</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 260</td>
<td>Properties of Materials</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>WELD 110</td>
<td>Shielded Metal Arc Welding</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>WELD 111</td>
<td>Shielded Metal Arc Welding 2</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>WELD 114</td>
<td>Oxy-Fuel Welding &amp; Brazing</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>WELD 117</td>
<td>Oxy-Fuel and Plasma Arc Cutting</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>WELD 133</td>
<td>Fabrication &amp; Blueprints for Welders</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>WELD 201</td>
<td>Gas Metal Arc Welding</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>WELD 230</td>
<td>Gas Tungsten Arc Welding</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>WELD 240</td>
<td>Pipe Welding</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>WELD 203</td>
<td>Flux Cored Arc Welding</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>WELD 275</td>
<td>Automation</td>
<td>4</td>
<td>4</td>
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</table>

Total Semester Credit Hours 45

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WELD 114</td>
<td>Oxy-Fuel Welding &amp; Brazing</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>WELD 117</td>
<td>Oxy-Fuel and Plasma Arc Cutting</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>WELD 133</td>
<td>Fabrication &amp; Blueprints for Welders</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>WELD 201</td>
<td>Gas Metal Arc Welding</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>WELD 240</td>
<td>Pipe Welding</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>WELD 203</td>
<td>Flux Cored Arc Welding</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>WELD 275</td>
<td>Automation</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 3

### Advancing Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

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### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

### Basic Welder, Manufacturing Technology (Technical Certificate)

Degree: Technical Certificate  
Program of Study: Manufacturing Technology
Specialization: Basic Welder
Program Code: 1110

About This Major . . .
This Basic Welder program is designed to provide training and opportunity to become proficient at SMAW, GMAW, OAC, PAC, blueprint reading, mathematics, and safety. This program offers classroom lecture and related lab work. Welding, cutting, layout, safety, attitude and quality of workmanship are stressed throughout this program. The Basic Welding certificate prepares students for welding helper-apprentice position in the welding industry and is designed to meet competency based standards set by the American Welding Society. This program prepares students to become certified AWS certified welders in the welding industry upon successful completion of the appropriate test standard.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written forms that are needed for entry level employment in the industry. (Communication Fluency)
2. Apply Mathematical concepts to meet entry level employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to the industry. (Critical Thinking)
4. Demonstrate knowledge of welding terminology, symbols, business practices, principles and application of associated technical skills (Specialized Knowledge/Applied Learning)
5. Perform the necessary applied welding skill sets to fulfill the needs of entry level employment. (Applied Learning)
6. Demonstrate ethical and civic responsibility necessary for employees in the industry. (Specialized Knowledge).

Institutional Certificate Requirements
The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than "C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(16 semester hours)

- Students in Welding may be required to purchase approximately $500.00 in tools and personal safety welding equipment. This does not include required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAMT 105</td>
<td>Print Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>WELD 110</td>
<td>Shielded Metal Arc Welding</td>
<td>4</td>
</tr>
<tr>
<td>WELD 117</td>
<td>Oxy-Fuel and Plasma Arc Cutting</td>
<td>2</td>
</tr>
<tr>
<td>WELD 201</td>
<td>Gas Metal Arc Welding</td>
<td>4</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math</td>
<td>3</td>
</tr>
<tr>
<td>ELCE 124</td>
<td>Electrical Safety</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>16</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

**Computer Aided Design Technology, Manufacturing Technology (Technical Certificate)**

Degree: Technical Certificate  
Program of Study: Manufacturing Technology  
Specialization: Computer Aided Design Technology  
Program Code: 1336

**About This Major . . .**

Through the use of freehand sketching and Computer Aided Drafting (CAD), the student will learn the techniques of basic drafting principles and methods used in today's engineering fields. Drafting concepts and the processes of orthographic projection, pictorial drawing, dimensioning, and geometric construction will be explored by hand and with CAD software and equipment. The majority of the student's work will be completed on the computer. A project in the area of the student's interest will tie the course to real world concepts.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a CAD technician. (Communication Fluency)
2. Apply mathematical concepts and practices that are required to properly perform calculation for design. (Quantitative Fluency)
3. Interview clients, to help decide on materials, size and design, based on client's needs and students' knowledge of the industry. (Applied Learning)
4. Demonstrate mastery of terminology in the Engineering, Architectural, Civil and Technical drafting industry. (Specialized Knowledge)
5. Generate substantially error-free plans that define the duties of a CAD technician. Produce industry standard drawings in various platforms. (Critical Thinking)
6. Demonstrate personal and professional ethical behavior as applied to the Computer Aided Design industry. (Specialized Knowledge)

**Institutional Certificate Requirements**

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than "C" will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

**Program Specific Certificate Requirements**

(35-36 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CADT 101</td>
<td>Introduction to Computers</td>
<td>1</td>
</tr>
<tr>
<td>CONC 104</td>
<td>Architectural/Civil Print Reading</td>
<td>2</td>
</tr>
<tr>
<td>CADT 106</td>
<td>Computer Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>CADT 107</td>
<td>Advanced Computer Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>CADT 108</td>
<td>CAD - Mechanical</td>
<td>3</td>
</tr>
<tr>
<td>CADT 109</td>
<td>CAD-Mechanical Advanced</td>
<td>3</td>
</tr>
<tr>
<td>CADT 110</td>
<td>CAD Application</td>
<td>4</td>
</tr>
<tr>
<td>CADT 210</td>
<td>Project</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 105</td>
<td>Print Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 106</td>
<td>Geometric Tolerancing</td>
<td>2</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math</td>
<td>3-4</td>
</tr>
<tr>
<td>or MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>Electives (with advisor's approval)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Semester Credit Hours | 35-36 |

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CADT 101</td>
<td>Introduction to Computers</td>
<td>1</td>
</tr>
<tr>
<td>CONC 104</td>
<td>Architectural/Civil Print Reading</td>
<td>2</td>
</tr>
<tr>
<td>CADT 106</td>
<td>Computer Aided Design</td>
<td>3</td>
</tr>
<tr>
<td>CADT 108</td>
<td>CAD - Mechanical</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Computer Aided Design/Computer Aided Manufacturing (CAD/CAM), Manufacturing Technology (Technical Certificate)

Degree: Technical Certificate

Program of Study: Manufacturing Technology
Specialization: CAD/CAM
Program Code: 1111

About This Major . . .

Through the use of Computer-aided Manufacturing (CAM) and Computer-aided Design (CAD), the student will learn the techniques of basic drafting principles and methods used in today’s manufacturing industry. Dimensioning, and geometric construction will be explored with CAD/CAM software and transferred to Computer Numerical Controlled (CNC) machines to operate machine tools and related machinery in the manufacturing and design of work pieces.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Use written and oral communication skills needed for entry level employment in the manufacturing industry. (Communication Fluency)
2. Apply mathematical concepts to perform machining tasks. (Quantitative Fluency)
3. Distinguish between tolerances and dimensions, as used in the machining industry. (Critical Thinking)
4. Summarize business practices, principles and application of associated technical skill in the machining in industry. (Specialized Knowledge)
5. Apply the necessary machining skill sets to perform specified manufacturing processes. (Applied Learning)
6. Determine ethical and civil responsibility necessary for employees in the machining industry. (Specialized Knowledge)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAMT 105</td>
<td>Print Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 106</td>
<td>Geometric Tolerancing</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 115</td>
<td>Introduction to Machine Shop</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 251</td>
<td>CNC Machining I</td>
<td>3</td>
</tr>
<tr>
<td>CADT 109</td>
<td>CAD-Mechanical Advanced</td>
<td>3</td>
</tr>
<tr>
<td>or ENGR 125</td>
<td>Computer-Aided Design and Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 148</td>
<td>CNC Applications</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 255</td>
<td>CNC Machining II</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>19</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

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Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Machine and Manufacturing Trades, Manufacturing Technology (Technical Certificate)

Degree: Technical Certificate
Program of Study: Manufacturing Technology
Specialization: Machine and Manufacturing Trades
Program Code: 1337

About This Major . . .

This program offers classroom instruction and related lab work with hands-on activities in the use of tools and the operation of equipment found in manufacturing. Students will work in the areas of blueprint reading, computer numerical control (CNC) machining, general machining and maintenance, computer-aided drafting (CAD), and related mathematics. This course is designed to meet competency-based standards set by the industry. Attitude and quality of workmanship is stressed. Career options include entry level machinist, computer-numerical control operator, numerical tool and process technician, manufacturing engineering technician, and manufacturing inspection technician.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Use written and oral communication skills needed for entry level employment in the manufacturing industry. (Communication Fluency)
2. Apply mathematical concepts to perform machining tasks. (Quantitative Fluency)
3. Distinguish between tolerances and dimensions, as used in the machining industry. (Critical Thinking)
4. Summarize business practices, principles and application of associated technical skill in the machining industry. (Specialized Knowledge)
5. Apply the necessary machining skill sets to perform specified manufacturing processes. (Applied Learning)
6. Determine ethical and civil responsibility necessary for employees in the machining industry. (Specialized Knowledge)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.
• Consists of 100-200 level courses.
• At least fifty percent of the credit hours must be taken at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A grade lower than “C” will not be counted toward meeting the requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Program Specific Certificate Requirements
(37 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAMT 105</td>
<td>Print Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 106</td>
<td>Geometric Tolerancing</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 115</td>
<td>Introduction to Machine Shop</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 120</td>
<td>Machine Technology I</td>
<td>4</td>
</tr>
<tr>
<td>MAMT 125</td>
<td>Machine Technology II</td>
<td>4</td>
</tr>
<tr>
<td>MAMT 230</td>
<td>Machine Technology III</td>
<td>4</td>
</tr>
<tr>
<td>MAMT 240</td>
<td>Job Shop Machining II</td>
<td>3</td>
</tr>
<tr>
<td>or MAMT 170</td>
<td>Practical Applications</td>
<td></td>
</tr>
<tr>
<td>MAMT 148</td>
<td>CNC Applications</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 251</td>
<td>CNC Machining I</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 255</td>
<td>CNC Machining II</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 260</td>
<td>Properties of Materials</td>
<td>3</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>37</td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

### Welding Technology, Manufacturing Technology (Technical Certificate)
Degree: Technical Certificate
Program of Study: Manufacturing Technology
Specialization: Welding Technology
Program Code: 1338

### About This Major . . .
This Welding Technology program is designed to provide training and opportunity to become proficient at SMAW, GMAW, GTAW, FCAW, OAC, PAC, blueprint reading, fabrication, layout, mathematics, and safety. This
program offers classroom lecture and related lab work. Students study welding, cutting, layout, fabrication and technical math. Safety, attitude and quality of workmanship are stressed throughout this course. The welding certificate prepares students for entry level placement in a wide range of jobs in the welding industry and is designed to meet competency based standards set by the American Welding Society. This program prepares students to become AWS certified welders in the welding industry.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written forms that are needed for entry level employment in the industry. (Communication Fluency)
2. Apply Mathematical concepts to meet entry level employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to the industry. (Critical Thinking)
4. Demonstrate knowledge of welding terminology, symbols, business practices, principles and application of associated technical skills (Specialized Knowledge/Applied Learning)
5. Perform the necessary applied welding skill sets to fulfill the needs of entry level employment. (Applied Learning)
6. Demonstrate ethical and civic responsibility necessary for employees in the industry. (Specialized Knowledge)

**Institutional Certificate Requirements**

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Certificate Requirements**

(33 semester hours, a grade of “C” or higher is required for all WELD courses.)

- Students in Welding may be required to purchase approximately $500.00 in tools and personal safety welding equipment. This does not include required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAMT 105</td>
<td>Print Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>WELD 110</td>
<td>Shielded Metal Arc Welding</td>
<td>4</td>
</tr>
<tr>
<td>WELD 117</td>
<td>Oxy-Fuel and Plasma Arc Cutting</td>
<td>2</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math</td>
<td>3</td>
</tr>
<tr>
<td>WELD 201</td>
<td>Gas Metal Arc Welding</td>
<td>4</td>
</tr>
<tr>
<td>ELCE 124</td>
<td>Electrical Safety</td>
<td>1</td>
</tr>
<tr>
<td>WELD 133</td>
<td>Fabrication &amp; Blueprints for Welders</td>
<td>4</td>
</tr>
<tr>
<td>WELD 230</td>
<td>Gas Tungsten Arc Welding</td>
<td>4</td>
</tr>
<tr>
<td>WELD 203</td>
<td>Flux Cored Arc Welding</td>
<td>4</td>
</tr>
<tr>
<td>WELD 111</td>
<td>Shielded Metal Arc Welding 2</td>
<td>4</td>
</tr>
<tr>
<td>CADT 101</td>
<td>Introduction to Computers</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours **33**

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the
student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

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**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
MASS COMMUNICATION

Program Description
The Mass Communication program provides students with a concentration in media strategies and applications. The primary goal is to offer students an opportunity to develop the knowledge, theory, and skills that will assist them in securing employment in the ever-changing, broad field of mass communication. Mass Communication graduates find successful careers across the country in traditional mass media (magazines, newspapers, radio, and TV stations, public relations and advertising), as well as in non-traditional settings such as the Internet, non-profits and government agencies.

Contact Information
Department of Languages, Literature, and Mass Communication
Escalante Hall 237
970.248.1687

Bachelors/Minors
- Mass Communication (Minor) (p. 528)
- Media Strategies and Applications, Mass Communication (BA) (p. 526)

Media Strategies and Applications, Mass Communication (BA)
Degree: Bachelor of Arts
Major: Mass Communication
Concentration: Media Strategies and Applications
Program Code: 3256

About This Major . . .
The Bachelor of Arts degree in Mass Communication is a concentration in Media Strategies and Applications. The overriding goal of the program is to offer students opportunities to develop the knowledge, theory and skills that will assist them in securing careers in the ever-changing fields of mass communication.

Graduates of Colorado Mesa University's Mass Communication program establish successful careers in media (magazines, newspapers, radio, television, public relations, advertising, and Internet-based media), as well as in other venues such as non-profit organizations, and government agencies.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply specific paradigms for critical thinking to mass communication. (Critical Thinking)
2. Evaluate and apply diversity, objectivity, and balance to any form of mass communication. (Critical Thinking)
3. Justify the decision for resolving moral or ethical mass communication dilemmas. (Specialized Knowledge)
4. Write a compelling content that demonstrates proper grammar, well-organized facts, and story-telling techniques for a variety of media. (Communication Fluency)
5. Determine validity of sources and research techniques. Additionally, they will be able to interpret data. (Quantitative Fluency)
6. Identify specific examples of media evolution. (Specialized Knowledge)
7. Evaluate mass communication theories and assess their use. (Specialized Knowledge)
8. Demonstrate proper application of industry tools and techniques common to mass communication. (Applied Learning)
9. Determine the best methods and strategies for developing a message. (Communication Fluency)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>English</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL 111 English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ENGL 112 English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Mathematics</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 110 College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>History</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Social and Behavioral Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Fine Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>31</td>
</tr>
</tbody>
</table>

1. Must receive a grade of "B" or better and must be completed by the time the student has 60 semester hours.
2. Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
3. One course must include a lab.

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Essential Learning Capstone</strong></td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**: 6

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Foundation Courses

(9 semester hours, must pass all courses with a grade of "C" or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASS 110</td>
<td>Mass Media: Impact and History-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select two consecutive classes in the same foreign language</td>
<td>6</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**: 9

1. FLAS 114 & FLAS 115 will NOT fulfill this requirement.

### Program Specific Degree Requirements

(44 semester hours, must pass all courses with a grade of "C" or higher and maintain a 2.5 cumulative GPA or higher for coursework in this area. To continue in the program and eventually graduate as Mass Communication – Media Strategies and Applications majors, students must earn a minimum grade of "C" in the major requirements within no more than three attempts.)

- In an effort to meet industry standards, Macintosh computers are used in all computer-based Mass Communication courses. Majors are strongly advised to consider purchasing a Macintosh and related print and web publication software for personal use.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Mass Communication Core</strong></td>
<td></td>
</tr>
<tr>
<td>MASS 140</td>
<td>Media Theory Introduction</td>
<td>3</td>
</tr>
<tr>
<td>MASS 144</td>
<td>Multimedia Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>MASS 213</td>
<td>Introduction to Media Writing and Reporting</td>
<td>3</td>
</tr>
<tr>
<td>MASS 310</td>
<td>Media Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>MASS 397</td>
<td>Practicum</td>
<td>1</td>
</tr>
<tr>
<td>MASS 494</td>
<td>Seminar: Advanced Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>MASS 498</td>
<td>Senior Project Portfolio</td>
<td>1</td>
</tr>
<tr>
<td>MASS 499</td>
<td>Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

**Strategy Courses**

Select at least four of the following: 12

- MASS 251 Mass Media: Advertising and Promotions
- MASS 313 Broadcast Journalism Reporting
- MASS 315A Specialized Writing for Media: Science
- MASS 315B Specialized Writing for Media: Sports
- MASS 315C Specialized Writing for Media: Health
- MASS 315D Specialized Writing for Media: Crime
- MASS 317 Writing Opinion for Impact
- MASS 350 Public Relations Concepts
- MASS 354 Documentary and News Producing
- MASS 415 Advanced Media Writing and Reporting
- MASS 417 Writing for Public Relations and Advertising
- MASS 450 Public Relations Campaigns

**Application Courses**

Select at least four of the following: 12

- MASS 261 Audio Announcing and Production
- MASS 271 Video Production
- MASS 342 Photojournalism I
- MASS 353 Print Design and Production for Editors
- MASS 357 Documentary and News Producing
- MASS 372 TV Studio Production
- MASS 441 Emerging Media
- MASS 442 Photojournalism II
- MASS 452 Designing for Brand and Message
- MASS 471 Advanced Video Production

**Total Semester Credit Hours**: 44
General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours, including 40 upper division hours. 30 semester hours, including 5-14 semester hours of upper division may be needed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>30</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
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<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>First Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTOD1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMAT1</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MASS 110</td>
<td>Mass Media: Impact and History-GTAM2</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTOD2</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Natural Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MASS 140</td>
<td>Media Theory Introduction</td>
<td>3</td>
</tr>
<tr>
<td>MASS 144</td>
<td>Multimedia Storytelling</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>Second Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Foundation Course - Foreign Language</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MASS 213</td>
<td>Introduction to Media Writing and Reporting</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Natural Science with Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Foundation Course - Foreign Language</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Strategy or Application courses (2 courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>KINA Activity</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>Third Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>MASS 310</td>
<td>Media Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>MASS 397</td>
<td>Practicum</td>
<td>1</td>
</tr>
<tr>
<td>Strategy or Application (2 courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Electives (2 courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>Strategy or Application (2 courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Electives (3 courses)</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>15</td>
</tr>
</tbody>
</table>

Fourth Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall Semester</td>
<td>Strategy or Application (2 courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Electives (3 courses)</td>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spring Semester</td>
<td>MASS 494</td>
<td>Seminar: Advanced Theory and Research</td>
<td>3</td>
</tr>
<tr>
<td>MASS 498</td>
<td>Senior Project Portfolio</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>MASS 499</td>
<td>Internship</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Electives (2 courses)</td>
<td>6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>13</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours | 120

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Mass Communication (Minor)

Minor: Mass Communication
Program Code: M250

About This Minor. . .

The Bachelor of Arts degree in Mass Communication is a concentration in Media Strategies and Applications. The overriding goal of the program is to offer students opportunities to develop the knowledge, theory and
skills that will assist them in securing careers in the ever-changing fields of mass communication.

Graduates of Colorado Mesa University's Mass Communication program establish successful careers in media (magazines, newspapers, radio, television, public relations, advertising, and Internet-based media), as well as in other venues such as non-profit organizations, and government agencies.

**Institutional Minor Requirements**
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Minor Requirements**
(19 semester hours, must maintain a 2.50 cumulative GPA or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASS 110</td>
<td>Mass Media: Impact and History-GTAH2</td>
<td>3</td>
</tr>
<tr>
<td>MASS 140</td>
<td>Media Theory Introduction</td>
<td>3</td>
</tr>
<tr>
<td>MASS 144</td>
<td>Multimedia Storytelling</td>
<td>3</td>
</tr>
<tr>
<td>MASS 213</td>
<td>Introduction to Media Writing and Reporting</td>
<td>3</td>
</tr>
<tr>
<td>MASS 397</td>
<td>Practicum</td>
<td>1</td>
</tr>
<tr>
<td>Select six hours of Upper Division Mass Communication (MASS) electives</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>19</td>
<td></td>
</tr>
</tbody>
</table>

See the current catalog for a full list of courses.

**Advising Process and DegreeWorks**
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.

**Graduation Process**
A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
**Program Description**

An Associate of Science in Mathematics provides students with a reasonable exposure to foundational college-level mathematics. This degree program includes the Colorado Statewide General Education Core and meets the lower division general education requirements at most public institutions in Colorado. By completing this degree, students should be able to matriculate into a baccalaureate degree in mathematics with only 60 additional hours of coursework.

Pursuing a Baccalaureate degree in Mathematics, students develop powerful problem-solving, logical and critical thinking skills. By completing the required coursework, students gain an understanding of the nature of proof, a broad general understanding of mathematics and a deep understanding of at least one area of mathematics. Math majors also develop independent learning skills and oral and written mathematical communication skills. Mathematics majors get jobs in a wide variety of areas. CMU graduates have worked for local businesses, have run their own businesses and have worked for scientific companies. Other graduates have continued their educations by attending graduate school (in mathematics, computer science and engineering), law school, medical school and veterinary school.

Students who pursue a Baccalaureate degree in Mathematics with a concentration in Applied Mathematics will develop powerful problem-solving, logical, and critical thinking skills. By completing the required coursework, students gain an understanding of the nature of proof, a broad general understanding of mathematics, and an understanding of at least one area of mathematics. Math majors also develop independent learning skills and oral and written mathematical communication skills. Mathematics majors get jobs in a wide variety of areas. CMU graduates have worked for local businesses, have run their own businesses and have worked for scientific companies. Other graduates have continued their educations by attending graduate school (in mathematics, computer science and engineering), law school, medical school and veterinary school.

The Baccalaureate degree in Mathematics with a concentration in Secondary Education will prepare students to teach in both middle schools and in high schools. While completing this degree, students develop problem-solving and critical thinking skills and are introduced to the logical and historical development of mathematical ideas. Students also learn the professional skills in teaching methods and content necessary for secondary mathematics teachers. Nationally recommended curriculum guidelines are followed in order to ensure that graduates have the mathematical content and conceptual understanding necessary for all high school mathematics courses. Graduates from this program are in demand both locally and statewide with the scarcity of mathematics teachers.

With a Baccalaureate degree in Mathematics with a concentration in Statistics, students develop problem-solving, logical and critical thinking skills. While completing the required coursework, students gain an understanding of the nature of proof, a general understanding of mathematics and an understanding of statistical reasoning, necessary assumptions and the correct use of statistical analysis procedures. Math and statistics majors also develop statistical software skills and oral and written mathematical communication skills. The statistics concentration in mathematics prepares students for graduate work in statistics or to enter the job force. With some additional job-specific training, students entering the job market could function as applied statisticians working in areas such as actuarial science, wildlife management, marketing, quality control and epidemiology to name a few.

A Minor in Mathematics is a natural enhancement to many majors outside mathematics where an understanding of mathematics is needed (e.g. physics, computer science, chemistry, biology, geology). A minor in mathematics enables non-mathematics majors to complete a focused course of study in mathematics on a smaller scale.

A Minor in Statistics is a natural enhancement to many majors outside mathematics where an understanding of statistical analysis of data is needed (e.g. biology, business, psychology, sociology, history, human performance and wellness, political science). A minor in statistics enables non-mathematics majors to complete a focused course of study in statistics on a smaller scale.

The Graduate Certificate in Applied Mathematics is intended to provide licensed secondary mathematics teachers the credentials required by the Higher Learning Commission to teach concurrent enrollment classes and to enable other professionals to enhance their knowledge of applied mathematics. For more complete program information: Applied Mathematics (Graduate Certificate) (p. 358).

**Special Requirements**

Additional expenses: A graphing calculator is recommended for several mathematics and statistics courses. See department for recommended models.

**Contact Information**

Department of Computer Science, Mathematics, and Statistics
Wubben Science 132
970.248.1407

**Associates**

- Mathematics, Liberal Arts (AS) (p. 541)

**Bachelors/Minors**

- Applied Mathematics, Mathematics (BS) (p. 530)
- Education: Secondary Education, Mathematics (BS) (p. 536)
- Mathematics (BS) (p. 533)
- Mathematics (Minor) (p. 543)
- Statistics (Minor) (p. 544)
- Statistics, Mathematics (BS) (p. 539)

**Graduate**

- Applied Mathematics (Graduate Certificate) (p. 340)

**Applied Mathematics, Mathematics (BS)**

Degree: Bachelor of Science
Major: Mathematics
Concentration: Applied Mathematics
Program Code: 3437
About This Major . . .

Applied mathematicians use mathematics to solve problems. This program provides mathematics coursework commonly found in applied math settings. Applied mathematics graduates can choose to find work in a variety of areas, or may choose to continue their educations by attending graduate school in areas such as applied mathematics, computer science and engineering. For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html and https://www.siam.org/careers/thinking.php.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Use methods of applied mathematics to model and solve applied problems (Specialized Knowledge/Applied Learning/Quantitative Fluency)
2. Use mathematical software (including calculators) to aid in problem-solving and investigation, and understand its limitations. (Applied Learning)
3. Prove propositions deductively from definitions and theorems, using clear and precise prose. (Critical Thinking)
4. Demonstrate comprehension of applied mathematics and deliver a substantial written and oral presentation in an area of applied mathematics. (Specialized Knowledge/Communication Fluency)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTC01</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTC02</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>31</td>
<td></td>
</tr>
</tbody>
</table>

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2 This is a 5 credit course. 3 credits apply to the Essential Learning requirements and 2 credits apply to electives.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.
# Foundation Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>8</strong></td>
</tr>
</tbody>
</table>

# Program Specific Degree Requirements

(50-53 semester hours, must maintain a 2.50 cumulative GPA or higher in coursework in this area. At most one “D” may be used in completing major requirements.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 150</td>
<td>Topics and Careers in Mathematics</td>
<td>1</td>
</tr>
<tr>
<td>MATH 225</td>
<td>Computational Linear Algebra</td>
<td>2</td>
</tr>
<tr>
<td>MATH 240</td>
<td>Introduction to Advanced Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 484</td>
<td>Senior Seminar I</td>
<td>2</td>
</tr>
<tr>
<td>MATH 494</td>
<td>Senior Seminar II</td>
<td>2</td>
</tr>
</tbody>
</table>

## Required Courses

Select one of the following: 4

- CSCI 110 Beginning Programming
- & 110L Beginning Programming Laboratory
- CSCI 111 CS1: Foundations of Computer Science
- CSCI 130 Introduction to Engineering Computer Science
- CSCI 310 Advanced Programming: 1-3
- MATH 260 Differential Equations
- MATH 360 Methods of Applied Mathematics
- MATH 365 Mathematical Modeling
- MATH 366 Methods of Applied Mathematics II
- MATH 466 Methods of Applied Mathematics III

## Concentration Electives

### Category 1

Select one of the following: 3

- STAT 311 Statistical Methods
- STAT 412 Correlation and Regression
- STAT 425 Design and Analysis of Experiments

### Category 2

Select one of the following: 3-4

- MATH 361 Numerical Analysis
- MATH 362 Fourier Analysis
- MATH 369 Discrete Structures I
- CSCI 380 Operations Research

### Category 3

Select one of the following: 3

- MATH 450 Complex Variables
- MATH 452 Intro to Real Analysis I
- MATH 460 Advanced Linear Algebra

# General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 22-25 semester hours; 8-11 hours of upper division may be needed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Select additional electives</strong></td>
<td><strong>20-23</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>50-53</strong></td>
</tr>
</tbody>
</table>

## Course Title

### First Year

**Fall Semester**

- MATH 151 Calculus I-GT-MA1
- ENGL 111 English Composition GTCO1
- KINA Activity
- KINE 100 Health and Wellness
- Essential Learning - Natural Science
- Essential Learning - Social and Behavioral Sciences

### Spring Semester

- MATH 152 Calculus II
- ENGL 112 English Composition GTCO2
- MATH 150 Topics and Careers in Mathematics

Select one of the following: 4

- CSCI 111 CS1: Foundations of Computer Science
- CSCI 110 Beginning Programming
- & 110L Beginning Programming Laboratory
- Essential Learning - Social and Behavioral Sciences

### Second Year

**Fall Semester**

- MATH 240 Introduction to Advanced Mathematics
- MATH 225 Computational Linear Algebra
- MATH 253 Calculus III
- Essential Learning - Fine Arts
- Essential Learning - History

### Spring Semester

- MATH 260 Differential Equations
- MATH 325 Linear Algebra
- STAT 200 Probability and Statistics-GTMA1
- CSCI 130 Introduction to Engineering Computer Science
- Essential Learning - Natural Science with Lab

### Third Year

**Fall Semester**

- MATH 360 Methods of Applied Mathematics
- ESSL 290 Maverick Milestone
- ESSL 200 Essential Speech
- CSCI 310 Advanced Programming:
- Concentration Elective

## Essential Learning - Humanities

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 471</td>
<td>Computational Physics I</td>
<td>5</td>
</tr>
</tbody>
</table>

# Total Semester Credit Hours

- First Year: Fall Semester - 16
- First Year: Spring Semester - 16
- Second Year: Fall Semester - 16
- Second Year: Spring Semester - 16
- Third Year: Fall Semester - 16

**Total Semester Credit Hours**: 50-53
Spring Semester
MATH 366 Methods of Applied Mathematics II 3
MATH 365 Mathematical Modeling 3
Concentration Elective 3-4
Electives 6
Semester Credit Hours 15-16

Fourth Year
Fall Semester
MATH 466 Methods of Applied Mathematics III 3
MATH 484 Senior Seminar I 2
Concentration Elective 3
Electives 6
Semester Credit Hours 14

Spring Semester
MATH 494 Senior Seminar II 2
Electives 8-11
Semester Credit Hours 10-13
Total Semester Credit Hours 117-123

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Mathematics (BS)
Degree: Bachelor of Science

About This Major . . .
Mathematics majors get jobs in a wide variety of areas. Our graduates have worked for local businesses, have run their own businesses, and have worked for scientific companies. Other graduates have continued their educations by attending graduate school (in mathematics, computer science and engineering), law school, medical school, and veterinary school.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html and/or http://www.coloradomesa.edu/mathstat/links.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will:

1. Construct multi-step problem-solving strategies, and communicate solutions effectively in written form. (Specialized Knowledge/ Quantitative Fluency)
2. Use mathematical software (including calculators) to aid in problem-solving and investigation, and understand its limitations. (Applied Learning)
3. Prove propositions deductively from definitions and theorems, using clear and precise prose. (Critical Thinking)
4. Learn an area of mathematics deeply and deliver substantial written and oral presentations of this area. (Specialized Knowledge/ Communication Fluency)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/ certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree
requirements a student must fulfill in order to graduate. Visit with
your advisor or academic department to determine which catalog
year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in
the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements
below. If a course is an Essential Learning option and a requirement for
your major, you must use it to fulfill the major requirement and make a
different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>English</strong></td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Mathematics</strong></td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>History</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one History course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Humanities course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Social and Behavioral Sciences</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Fine Arts</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Fine Arts course</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>31</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the
Essential Learning English and Mathematics requirements, and when
a student has earned between 45 and 75 hours.

Foundation Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>8</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements
(43-46 semester hours, must maintain a 2.5 cumulative GPA in the
coursework in this area. At most one “D” may be used in completing
major requirements.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Core Courses</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MATH 150</td>
<td>Topics and Careers in Mathematics</td>
</tr>
<tr>
<td></td>
<td>MATH 225</td>
<td>Computational Linear Algebra</td>
</tr>
<tr>
<td></td>
<td>MATH 240</td>
<td>Introduction to Advanced Mathematics</td>
</tr>
<tr>
<td></td>
<td>MATH 253</td>
<td>Calculus III</td>
</tr>
<tr>
<td></td>
<td>MATH 325</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td></td>
<td>MATH 484</td>
<td>Senior Seminar I</td>
</tr>
<tr>
<td></td>
<td>MATH 494</td>
<td>Senior Seminar II</td>
</tr>
<tr>
<td></td>
<td><strong>Required Courses</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CSCI 111</td>
<td>CS1: Foundations of Computer Science</td>
</tr>
<tr>
<td></td>
<td>MATH 452</td>
<td>Intro to Real Analysis I</td>
</tr>
<tr>
<td></td>
<td>MATH 490</td>
<td>Abstract Algebra I</td>
</tr>
<tr>
<td></td>
<td>MATH 453</td>
<td>Intro to Real Analysis II</td>
</tr>
<tr>
<td></td>
<td>or MATH 491</td>
<td>Abstract Algebra II</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>31</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Restricted Electives</strong></td>
<td>12-15</td>
</tr>
<tr>
<td></td>
<td>Select four of the following: 1</td>
<td></td>
</tr>
<tr>
<td>MATH 260</td>
<td>Differential Equations</td>
<td></td>
</tr>
<tr>
<td>or MATH 236</td>
<td>Differential Equations and Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 310</td>
<td>Number Theory</td>
<td></td>
</tr>
<tr>
<td>MATH 360</td>
<td>Methods of Applied Mathematics</td>
<td></td>
</tr>
<tr>
<td>MATH 361</td>
<td>Numerical Analysis</td>
<td></td>
</tr>
<tr>
<td>MATH 362</td>
<td>Fourier Analysis</td>
<td></td>
</tr>
<tr>
<td>MATH 365</td>
<td>Mathematical Modeling</td>
<td></td>
</tr>
<tr>
<td>MATH 366</td>
<td>Methods of Applied Mathematics II</td>
<td></td>
</tr>
<tr>
<td>MATH 369</td>
<td>Discrete Structures</td>
<td></td>
</tr>
<tr>
<td>MATH 370</td>
<td>Discrete Structures II</td>
<td></td>
</tr>
<tr>
<td>MATH 386</td>
<td>Geometries</td>
<td></td>
</tr>
<tr>
<td>MATH 420</td>
<td>Introduction to Topology</td>
<td></td>
</tr>
<tr>
<td>MATH 430</td>
<td>Mathematical Logic</td>
<td></td>
</tr>
</tbody>
</table>
### General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 29-32 semester hours; 10-15 hours of upper division may be needed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>2</td>
</tr>
<tr>
<td>Select additional electives</td>
<td>27-30</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>29-32</td>
<td></td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

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### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
Education: Secondary Education, Mathematics (BS)

Degree: Bachelor of Science
Major: Mathematics
Concentration: Secondary Education
Program Code: 3430

About This Major . . .

The major in mathematics with a concentration in secondary education will prepare students to teach in both middle schools and in high schools. While completing this degree, students develop problem-solving and critical thinking skills and are introduced to the logical and historical development of mathematical ideas. Students also learn the professional skills in teaching methods and content necessary for secondary mathematics teachers. Nationally recommended curriculum guidelines are followed in order to ensure that graduates have the mathematical content and conceptual understanding necessary for all high school mathematics courses. Graduates from this program are in great demand both locally and statewide with the scarcity of mathematics teachers in this country.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html and/or http://www.coloradomesa.edu/mathstat/links.html.

Important information for this program:

• 2.80 cumulative GPA or higher in all CMU coursework.
• Students must take the PRAXIS II exam in the content area prior to beginning the internship. Also, all other coursework toward the degree must be successfully completed prior to the internship.
• A grade of "C" or better must be earned in all required courses, unless otherwise stated.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Construct multi-step problem solving strategies, use mathematical software tools appropriately, and communicate solutions effectively in written form. (Critical Thinking / Communication Fluency)
2. Use mathematical software (including calculators) to aid in problem-solving and investigation, and understand its limitations. (Applied Learning)
3. Prove propositions deductively from definitions and theorems in clear and precise prose. (Quantitative Fluency)
4. Demonstrate familiarity with the logical and historical development of mathematics and the implications of this development. (Specialized Knowledge)
5. Effectively communicate mathematics using oral and written exposition appropriate for teachers of mathematics. (Communication Fluency)
6. Instruct K-12 students based on self-written learning plans to address individual learning and developmental patterns in Mathematics. (Specialized Knowledge)
7. Design a safe and supportive learning environment for elementary and secondary education students. (Applied Learning)
8. Apply Mathematics content knowledge while working with learners to access information in real world settings assuring learner mastery of the content. (Specialized Knowledge)
9. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication. (Critical Thinking/Communication Fluency)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practice.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.
### Program Specific Degree Requirements

(42 semester hours, must pass all courses with a grade of "C" or higher, excepting one "D", at most, which may be used in completing the major requirements. Must also maintain a 2.80 cumulative GPA or higher in coursework toward the major content area.)

- Students must take the PRAXIS II exam in the content area prior to beginning the internship. Also, all other coursework toward the degree must be successfully completed prior to the internship.

### Other Lower Division Requirements

#### Wellness Requirement
- KINE 100 Health and Wellness 1
- Select one Activity course 1

#### Essential Learning Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Total Semester Credit Hours

1 Must receive a grade of "B" or better and must be completed by the time the student has 60 semester hours.
2 Must receive a grade of "C" or better, must be completed by the time the student has 60 semester hours.
3 This is a 5 semester credit hour course. 3 credits apply to the Essential Learning requirements and 2 credits apply to elective credit.
4 Must receive a grade of "B" or higher.
5 GEOG 103 - World Regional Geography (3) recommended.
6 One course must include a lab.

### Foundation Courses

(8 semester hours, must pass all courses with a grade of "C" or higher.)
Secondary Education Requirements
(29 semester hours, all EDUC prefix courses must be completed with a grade of "B" or better.)

Program Requirements: ENGL 111, ENGL 112, PSYC 233, EDUC 115 and EDUC 215 (all with a grade of B or better) and formal acceptance to the Teacher Education Program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator (8 field experience hours)</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession (12 field experience hours)</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 342</td>
<td>Pedagogy and Assessment: Secondary and K-12 (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 343</td>
<td>Teaching to Diversity (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 442</td>
<td>Integrating Literacy Across the Curriculum: Secondary and K-12 Art (60 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 475</td>
<td>Classroom Management for K-12 Educators</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 497</td>
<td>Content Methodology Practicum (80 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 497C</td>
<td>Methods of Teaching Secondary Mathematics</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 499G</td>
<td>Teaching Internship and Colloquia: Secondary (600 12 field experience hours)</td>
<td>12</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 29

1 This course is only offered in the fall semester. It may be taken with either the 300-level or 400-level EDUC courses but must be taken before the student teaching semester.

All EDUC prefix courses listed above must be completed with a grade of B or better to progress through the program sequence.

EDUC 497C is only offered in the fall semester. It may be taken with either the 300-level or 400-level EDUC courses but must be taken before the student teaching (internship) semester.

Students must take the PRAXIS II exam in the content area prior to commencing the internship. Also, all other coursework toward the degree must be successfully completed prior to the internship.

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others
may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Statistics, Mathematics (BS)**

Degree: Bachelor of Science  
Major: Mathematics  
Concentration: Statistics  
Program Code: 3434

**About This Major . . .**

The statistics concentration in mathematics prepares students for graduate work in statistics or to enter the job force. With some additional job-specific training, students entering the job market could function as applied statisticians working in areas such as actuarial science, wildlife management, marketing, quality control, and epidemiology to name a few.

For more information on what you can do with this major, go to [http://www.coloradomesa.edu/career/whatmajor.html](http://www.coloradomesa.edu/career/whatmajor.html).

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major and concentration will be able to:

1. Construct multi-step problem-solving strategies, and communicate solutions effectively in written form. (Specialized Knowledge/Quantitative Fluency)
2. Use mathematical software (including calculators) to aid in problem-solving and investigation, and understand its limitations. (Applied Learning)
3. Apply appropriate statistical procedures and justify chosen assumptions. (Applied Learning)
4. Draw statistical conclusions and evaluate the validity of others’ conclusions. (Critical Thinking)
5. Communicate technical analyses to non-specialists. (Communication Fluency)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>3</td>
</tr>
<tr>
<td><strong>History</strong></td>
<td><strong>Select one History course</strong></td>
<td><strong>3</strong></td>
</tr>
</tbody>
</table>
### Humanities
Select one Humanities course 3

### Social and Behavioral Sciences
Select one Social and Behavioral Sciences course 3
Select one Social and Behavioral Sciences course 3

### Fine Arts
Select one Fine Arts course 3

### Natural Sciences
Select one Natural Sciences course 3
Select one Natural Sciences course with a lab 4

Total Semester Credit Hours 31

1. Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.

2. This is a 5 credit course. 3 credits apply to the Essential Learning requirements and 2 credits apply to electives.

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Wellness Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Essential Learning Capstone</strong> 1</td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Foundation Courses
(8 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>8</td>
</tr>
</tbody>
</table>

### Program Specific Degree Requirements
(43 semester hours. A 2.5 cumulative GPA is required in the major courses. At most one “D” may be used in completing major requirements.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 150</td>
<td>Topics and Careers in Mathematics</td>
<td>1</td>
</tr>
<tr>
<td>MATH 225</td>
<td>Computational Linear Algebra</td>
<td>2</td>
</tr>
<tr>
<td>MATH 240</td>
<td>Introduction to Advanced Mathematics</td>
<td>4</td>
</tr>
</tbody>
</table>

### Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 325</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 484</td>
<td>Senior Seminar I</td>
<td>2</td>
</tr>
<tr>
<td>MATH 494</td>
<td>Senior Seminar II</td>
<td>2</td>
</tr>
</tbody>
</table>

### General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 32 semester hours, 12 additional upper division hours may be needed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151</td>
<td>Calculus I-GTMA1</td>
<td>2</td>
</tr>
<tr>
<td>Select additional electives</td>
<td></td>
<td>30</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>32</td>
</tr>
</tbody>
</table>

### First Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151</td>
<td>Calculus I-GTMA1</td>
<td>5</td>
</tr>
<tr>
<td>CSCI 111</td>
<td>CS1: Foundations of Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTC01</td>
<td>3</td>
</tr>
<tr>
<td>KINE Activity</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

### Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 150</td>
<td>Topics and Careers in Mathematics</td>
<td>1</td>
</tr>
<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTC02</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

### Second Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 225</td>
<td>Computational Linear Algebra</td>
<td>2</td>
</tr>
<tr>
<td>MATH 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>15</td>
</tr>
</tbody>
</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 240</td>
<td>Introduction to Advanced Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>Essential Learning - Natural Science with Lab</td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.

• Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Mathematics, Liberal Arts (AS)

Degree: Associate of Science
Major: Liberal Arts
Emphasis: Mathematics
Program Code: 2425

About This Major . . .

The Associate of Science (A.S.) degree with an emphasis in mathematics provides students with a reasonable exposure to foundational college-level mathematics. The A.S. is the appropriate choice for students who will take upper division coursework in mathematics, biological sciences, and physical sciences. The degree program includes the Colorado Statewide General Education Core and meets the lower division general education requirements at most public institutions in Colorado. By completing this degree, students should be able to matriculate into a baccalaureate degree in mathematics with only 60 additional hours of coursework.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html and/or http://www.coloradomesa.edu/mathstat/links.html.

Important information for this degree:

- Students must maintain a 2.5 cumulative GPA or higher in all CMU coursework.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Construct multi-step problem-solving strategies, and communicate solutions effectively in written form. (Specialized Knowledge/Quantitative Fluency)
2. Use mathematical software (including calculators) to aid in problem-solving and investigation, and understand its limitations. (Applied Learning)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU or WCCC Associate of Science (AS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours total.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
Mathematics, Liberal Arts (AS)

• A grade of “C” or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado’s guaranteed transfer program.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 15 semester credit hours for an associate of science degree. A maximum of 6 of the 15 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 119</td>
<td>Precalculus Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one History course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Fine arts course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>31</td>
<td></td>
</tr>
</tbody>
</table>

1. Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2. Both options are 5 semester credit hour courses. Of the course selected, 3 credits apply to the Essential Learning Requirements and 2 credits apply to electives.
3. One course must include a lab.

Other Lower Division Requirements

(2 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wellness Requirement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements

(15-21 semester hours, no more than one “D” grade may be used. A GPA of 2.5 or higher must be maintained for all coursework toward the major content area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>5</td>
</tr>
<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 260</td>
<td>Differential Equations</td>
<td>3-4</td>
</tr>
<tr>
<td>or MATH 236</td>
<td>Differential Equations and Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>20-21</td>
</tr>
</tbody>
</table>

1. If MATH 151 is used to satisfy the Mathematics Essential Learning Requirement, only 15 semester hours are required for the emphasis.

General Electives

(6-12 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 119</td>
<td>Precalculus Mathematics-GTMA1</td>
<td>2-5</td>
</tr>
<tr>
<td>or MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td></td>
</tr>
<tr>
<td>Select courses not listed above that will bring your total semester hours to 60 hours</td>
<td>4-7</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6-12</td>
</tr>
</tbody>
</table>

1. Recommended: MATH 240 or CSCI 111.

Course Title Semester Credit Hours

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>5</td>
</tr>
</tbody>
</table>

First Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>5</td>
</tr>
<tr>
<td>Group</td>
<td>Code</td>
<td>Title</td>
</tr>
<tr>
<td>-------</td>
<td>------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>A</td>
<td>MATH 251</td>
<td>Calculus III</td>
</tr>
<tr>
<td>B</td>
<td>MATH 251</td>
<td>Calculus III</td>
</tr>
<tr>
<td>C</td>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
</tr>
<tr>
<td>D</td>
<td>MATH 152</td>
<td>Calculus II</td>
</tr>
<tr>
<td>E</td>
<td>MATH 152</td>
<td>Calculus II</td>
</tr>
<tr>
<td>F</td>
<td>MATH 260</td>
<td>Differential Equations</td>
</tr>
<tr>
<td>G</td>
<td>MATH 260</td>
<td>Differential Equations</td>
</tr>
<tr>
<td>H</td>
<td>MATH 270</td>
<td>Introduction to Advanced Mathematics</td>
</tr>
<tr>
<td>I</td>
<td>MATH 270</td>
<td>Introduction to Advanced Mathematics</td>
</tr>
<tr>
<td>J</td>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
</tr>
<tr>
<td>K</td>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
</tr>
<tr>
<td>L</td>
<td>KINE 100</td>
<td>Health and Wellness</td>
</tr>
<tr>
<td>M</td>
<td>KINE 100</td>
<td>Health and Wellness</td>
</tr>
<tr>
<td>N</td>
<td>CSCI 101</td>
<td>Essential Learning - Humanities</td>
</tr>
<tr>
<td>O</td>
<td>CSCI 101</td>
<td>Essential Learning - Humanities</td>
</tr>
<tr>
<td>P</td>
<td>ESSL 290</td>
<td>Essential Learning - Fine Arts</td>
</tr>
<tr>
<td>Q</td>
<td>ESSL 290</td>
<td>Essential Learning - Fine Arts</td>
</tr>
<tr>
<td>R</td>
<td>ESSL 200</td>
<td>Essential Learning - History</td>
</tr>
<tr>
<td>S</td>
<td>ESSL 200</td>
<td>Essential Learning - History</td>
</tr>
<tr>
<td>T</td>
<td>General Elective</td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>General Elective</td>
<td></td>
</tr>
</tbody>
</table>

**About This Minor. . .**

A minor in mathematics is a natural enhancement to many majors outside mathematics where an understanding of mathematics is needed (e.g., physics, engineering, computer science, chemistry, biology, geology). A minor in mathematics enables non-mathematics majors to complete a focused course of study in mathematics on a smaller scale.

**Institutional Minor Requirements**

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Minor Requirements**

(18-24 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>4-5</td>
</tr>
<tr>
<td>or MATH 136</td>
<td>Engineering Calculus II</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete two courses from Group A or two courses from Group B:</td>
<td>5-8</td>
</tr>
</tbody>
</table>

**Group A:**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 225</td>
<td>Computational Linear Algebra</td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Mathematics (Minor)**

**Minor: Mathematics**

**Program Code: M460**

- **About This Minor. . .**
- **Institutional Minor Requirements**
- **Program Specific Minor Requirements**
- **Advising Process and DegreeWorks**
- **Graduation Process**

---

1 Students that intend to continue with Colorado Mesa University should also take ESSL 290 and ESSL 200 during the final semester of their Associate of Science work.
MATH 240  Introduction to Advanced Mathematics
MATH 253  Calculus III
MATH 260  Differential Equations

Group B:
MATH 236  Differential Equations and Linear Algebra
MATH 240  Introduction to Advanced Mathematics
MATH 253  Calculus III

Group C:
Select three of the following  9-11
MATH 310  Number Theory
MATH 325  Linear Algebra
MATH 352  Advanced Calculus
MATH 360  Methods of Applied Mathematics
MATH 361  Numerical Analysis
MATH 362  Fourier Analysis
MATH 365  Mathematical Modeling
MATH 366  Methods of Applied Mathematics II
MATH 369  Discrete Structures I
MATH 370  Discrete Structures II
MATH 386  Geometries
MATH 420  Introduction to Topology
MATH 430  Mathematical Logic
MATH 450  Complex Variables
MATH 452  Intro to Real Analysis I
MATH 453  Intro to Real Analysis II
MATH 460  Advanced Linear Algebra
MATH 466  Methods of Applied Mathematics III
MATH 490  Abstract Algebra I
MATH 491  Abstract Algebra II
MATH 396  Topics
or MATH 496  Topics

Total Semester Credit Hours  18-24

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Statistics (Minor)
Minor: Statistics
Program Code: M465

About This Minor...
A minor in statistics is a natural enhancement to many majors outside mathematics where an understanding of statistical analysis of data is needed (e.g. biology, business, psychology, sociology, history, human performance and wellness, political science). A minor in statistics enables non-mathematics majors to complete a focused course of study in statistics on a smaller scale.

Institutional Minor Requirements
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 90 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.

- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements
(18-21 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3-4</td>
</tr>
<tr>
<td>STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td></td>
</tr>
<tr>
<td>STAT 241</td>
<td>Introduction to Business Analysis</td>
<td></td>
</tr>
<tr>
<td>CISB 241</td>
<td>Introduction to Business Analysis</td>
<td></td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 121</td>
<td>Calculus for Business</td>
</tr>
<tr>
<td>MATH 135</td>
<td>Engineering Calculus I</td>
</tr>
</tbody>
</table>
MATH 146  Calculus for Biological Sciences
MATH 151  Calculus I-GT-MA1

Choose 12 semester hours of the following: 12

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 305</td>
<td>Statistics and Quality Control for Engineering</td>
</tr>
<tr>
<td>STAT 311</td>
<td>Statistical Methods</td>
</tr>
<tr>
<td>STAT 313</td>
<td>Sampling Techniques</td>
</tr>
<tr>
<td>STAT 350</td>
<td>Mathematical Statistics I</td>
</tr>
<tr>
<td>STAT 351</td>
<td>Mathematical Statistics II</td>
</tr>
<tr>
<td>STAT 396</td>
<td>Topics</td>
</tr>
<tr>
<td>STAT 412</td>
<td>Correlation and Regression</td>
</tr>
<tr>
<td>STAT 425</td>
<td>Design and Analysis of Experiments</td>
</tr>
<tr>
<td>STAT 496</td>
<td>Topics</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 18-21

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
MECHANICAL ENGINEERING

Program Description
Colorado Mesa University and the University of Colorado Boulder have created a partnership to deliver a mechanical engineering program in its entirety in Grand Junction. The CMU/CU-Boulder Mechanical Engineering Partnership Program prepares students for careers in a wide range of industries through the rigorous study of mechanical engineering. Students completing the program will be awarded a Bachelor of Science in Mechanical Engineering degree from CU-Boulder.

Special Requirements
Students enter CMU as "pre-engineering" majors. They may apply to the Mechanical Engineering Partnership Program:

- After one year at CMU if they have completed a two-course sequence in calculus and a two-course sequence in physical science with As or Bs and have an overall GPA of 3.0 or better, or
- After completing all required lower-division coursework at CMU with a GPA in technical courses (calculus, science, and engineering) of 3.0 or better

Interested students can learn more about the program and admission options at coloradomesa.edu/engineering.

Contact Information
Confluence Hall
1410 North 7th Street
Grand Junction, CO, 81501
970.248.1400

Bachelors/Minors
• Mechanical Engineering, CMU/CU-Boulder Partnership Program (BSME) (p. 546)

Mechanical Engineering, CMU/CU-Boulder Partnership Program (BSME)
Degree: Bachelor of Science in Mechanical Engineering
Major: Mechanical Engineering
Program Code: 3451

This section provides links to information for the CMU/CU-Boulder Mechanical Engineering Partnership Program. An official review of your coursework will be performed by CU administration to ensure completion of all graduation requirements.

Important information for this program:

- In order to take any Math, Science or Engineering courses, each listed prerequisite (or an equivalent course) must be completed with a grade of "C" or better.
- All engineering students must take ENGL 111 and 112 unless they meet or exceed one of the following criteria: ACT ENGL 24 or SAT Verbal 550 or AP English (Lit & Comp or Lang & Comp) 4 or IB English 4.
- Minimum credits to graduate: 128 hrs
MECHANICAL ENGINEERING TECHNOLOGY

Program Description

The objective of the mechanical engineering technology program is to provide the knowledge necessary to apply state-of-the-art techniques to design and build products and systems to meet the current and future needs of society. The mechanical engineering technology major is designed for a student who is a doer or implementer—one who is able to apply mathematics, the natural and engineering sciences, engineering principles and current engineering practices to the solution of design problems and to the operation and testing of mechanical systems.

Laboratory courses are an integral component of the mechanical engineering technology program and are designed to develop student competence to apply experimental design methods, as well as provide a “hands-on” approach to designing and building products and systems to meet the current and future needs of society.

The Associate of Applied Science in Mechanical Engineering Technology provides graduates the skills and knowledge for a successful transition to either a career as a mechanical engineering technician or to continue in the Bachelor of Science program.

Contact Information

Confluence Hall
1410 North 7th Street
Grand Junction, CO, 81501
970.248.1400

Associates

- Mechanical Engineering Technology (AAS) (p. 547)

Bachelors

- Mechanical Engineering Technology (BS) (p. 549)

Mechanical Engineering Technology (AAS)

Degree: Associate of Applied Science
Major: Mechanical Engineering Technology
Program Code: 1453

About This Major . . .

The objective of the Associate of Applied Science (AAS) in Mechanical Engineering Technology (MET) is to provide the knowledge necessary to aid in the design and realization of products and systems to meet the current and future needs of society. Completion of this applied engineering technology program provides graduates with the skills and knowledge for a successful transition to either a career as a mechanical engineering technician or to the Bachelor of Science program in Mechanical Engineering Technology.

The AAS in MET is designed for a student who is a doer or implementer—one who is able to apply mathematics, the natural and engineering sciences, engineering principles, and current engineering practices to the operation and testing of mechanical systems. Laboratory courses are an integral component of the MET program and are designed to develop student competence to apply experimental design methods, as well as provide a “hands-on” approach to building products and systems.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply the knowledge, techniques, skills, and modern tools of engineering to engineering problems. (Critical Thinking/Applied Learning)
2. Apply knowledge of mathematics, science, and technology to engineering problems. (Quantitative Fluency)
3. Effectively use oral, written, and graphical communication skills to address both technical and non-technical audiences. (Communication Fluency)
4. Apply the ethical standards of the discipline to engineering problems. (Specialized Knowledge)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this degree:

- 62 semester hours total for the AAS, Mechanical Engineering Technology.

Essential Learning Requirements

(15 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

### Code Title Semester Credit Hours

#### Communication
- ENGL 111 English Composition-GTCO1 3
- ENGL 112 English Composition-GTCO2 3

#### Mathematics
- MATH 119 Precalculus Mathematics-GTMA1 3

#### Social and Behavioral Sciences
- SOCI 120 Technology and Society-GTSS3 3

#### History
- Select one History (HIST) course 3

Total Semester Credit Hours 15

1 This is a 5 semester credit hour course. 3 credits apply to the Essential Learning requirement and 2 credits apply to General Electives.

### Other Lower Division Requirements

#### Wellness Requirement
- KINE 100 Health and Wellness 1
- Select one Activity course 1

Total Semester Credit Hours 2

### Program Specific Degree Requirements

(43 semester hours, must earn a grade of "C" or better in each course.)

#### Code Title Semester Credit Hours

Select one of the following options:
- CHEM 121 Principles of Chemistry-GTSC1 & 121L and Principles of Chemistry Laboratory-GTSC1 5
- CHEM 131 General Chemistry I-GTSC1 & 131L and General Chemistry Laboratory I-GTSC1
- CSCI 130 Introduction to Engineering Computer Science 3
- Select one of the following courses with lab:
  - PHYS 111 General Physics-GTSC1 & 111L and General Physics Laboratory-GTSC1 5
  - PHYS 131 Fundamental Mechanics-GTSC1 & 131L and Fundamental Mechanics Laboratory-GTSC1
  - ENGR 101 Introduction to Engineering 1
  - ENGR 125 Computer-Aided Design and Fabrication 3
  - ENGR 140 First-Year Engineering Project 3
  - ENGR 261 Statics and Structures 3
  - MAMT 115 Introduction to Machine Shop 3
  - MAMT 251 CNC Machining I 3

MAMT 255 CNC Machining II 3
- MATH 135 Engineering Calculus I 4
- MATH 136 Engineering Calculus II 4
- WELD 151 Introduction to Welding 3

Total Semester Credit Hours 43

### General Electives

(2 semester hours)
Electives (2 semester hours of college level courses appearing on final transcript, to bring total semester hours to 62.)

#### Code Title Semester Credit Hours

- MATH 119 Precalculus Mathematics-GTMA1 2

Total Semester Credit Hours 2

#### Course Title Semester Credit Hours

**First Year**
**Fall Semester**
- ENGR 101 Introduction to Engineering 1
- MATH 119 Precalculus Mathematics-GTMA1 5
- ENGL 111 English Composition-GTCO1 3
- ENGR 125 Computer-Aided Design and Fabrication 3
- KINE 100 Health and Wellness 1
- Select one History (HIST) course 3

Semester Credit Hours 16

**Spring Semester**
- MATH 135 Engineering Calculus I 4
- ENGL 112 English Composition-GTCO2 3
- ENGR 140 First-Year Engineering Project 3
- MAMT 115 Introduction to Machine Shop 3
- WELD 151 Introduction to Welding 3

Semester Credit Hours 16

**Second Year**
**Fall Semester**
- MATH 136 Engineering Calculus II 4
- PHYS 131 Fundamental Mechanics-GTSC1 or PHYS 111 or General Physics-GTSC1 4
- PHYS 131L Fundamental Mechanics Laboratory-GTSC1 or PHYS 111L or General Physics Laboratory-GTSC1 1
- Select one of the following:
  - CHEM 121 Principles of Chemistry-GTSC1 & 121L and Principles of Chemistry Laboratory-GTSC1 5
  - CHEM 131 General Chemistry I-GTSC1 & 131L and General Chemistry Laboratory I-GTSC1

Semester Credit Hours 14

**Spring Semester**
- CSCI 130 Introduction to Engineering Computer Science 3
- MAMT 251 CNC Machining I 3
- MAMT 255 CNC Machining II 3
- ENGR 261 Statics and Structures 3
- KINA Activity course 1
- SOCI 120 Technology and Society-GTSS3 3

Semester Credit Hours 16

Total Semester Credit Hours 62
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Mechanical Engineering Technology (BS)

Degree: Bachelor of Science
Major: Mechanical Engineering Technology
Program Code: 3453

About This Major . . .

The objective of the Mechanical Engineering Technology Program (MET) is to provide the knowledge necessary to apply state-of-the-art techniques to design and build products and systems to meet the current and future needs of society. The Bachelor of Science Degree in Mechanical Engineering Technology is designed for a student who is doer or implementer - one who is able to apply mathematics, the natural and engineering sciences, engineering principles, and current engineering practices to the solution of design problems and to the operation and testing of mechanical systems.

The MET graduate applies established procedures that use current state-of-the-art techniques to work with mechanical systems. Laboratory courses are an integral component of the MET program and are designed to develop student competence to apply experimental design methods, as well as provide a “hands-on” approach to designing and building products and systems to meet the current and future needs of society. The employment of METs in manufacturing related areas should increase as the demand for improved machinery and machine tools grows and industrial machinery and processes become increasingly complex. Emerging technologies in biotechnology, and nanotechnology will create new job opportunities for METs. In addition to job openings from growth, many openings should result from the need to replace workers who leave the labor force.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply the knowledge, techniques, skills, and modern tools of engineering to engineering problems. (Critical Thinking/Applied Learning)
2. Apply knowledge of mathematics, science, and technology to engineering problems. (Quantitative Fluency)
3. Effectively use oral, written, and graphical communication skills to address both technical and non-technical audiences. (Communication Fluency)
4. Apply the ethical standards of the discipline to engineering problems. (Specialized Knowledge)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with
your advisor or academic department to determine which catalog year and program requirements you should follow.

- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Specific to this degree:**
- 126 semester hours for the BS in Mechanical Engineering Technology.

### Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 135</td>
<td>Engineering Calculus I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 135L</td>
<td>Engineering Calculus Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>SOCI 120</td>
<td>Technology and Society-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 131</td>
<td>Fundamental Mechanics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 131L</td>
<td>Fundamental Mechanics Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 151</td>
<td>Engineering Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 151L</td>
<td>Engineering Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MAMT 102</td>
<td>Machining Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>MATH 135</td>
<td>Engineering Calculus I</td>
<td>1</td>
</tr>
<tr>
<td>MATH 136</td>
<td>Engineering Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MAMT 105</td>
<td>Print Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 106</td>
<td>Geometric Tolerancing</td>
<td>2</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 31

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Foundation Courses
(13 semester hours, must pass each course with a grade of “C” or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 151</td>
<td>Engineering Chemistry</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 151L</td>
<td>Engineering Chemistry Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MAMT 102</td>
<td>Machining Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>MATH 135</td>
<td>Engineering Calculus I</td>
<td>1</td>
</tr>
<tr>
<td>MATH 136</td>
<td>Engineering Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MAMT 105</td>
<td>Print Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 106</td>
<td>Geometric Tolerancing</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 13

### Program Specific Degree Requirements
(76 semester hours, must pass each course with a grade of “C” or higher and maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGR 101</td>
<td>Introduction to Engineering</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 125</td>
<td>Computer-Aided Design and Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 140</td>
<td>First-Year Engineering Project</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 224</td>
<td>Materials Science</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 224L</td>
<td>Materials Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 225</td>
<td>Introduction to Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 261</td>
<td>Statics and Structures</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 263</td>
<td>Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 305</td>
<td>Engineering Economics &amp; Ethics</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 312</td>
<td>Engineering Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 317</td>
<td>Fundamentals of Circuits and Electronics</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 317L</td>
<td>Fundamentals of Circuits and Electronics</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 321</td>
<td>Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 325</td>
<td>Component Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 343</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 345</td>
<td>Engineering Integration I</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 385</td>
<td>Engineering Integration II</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 401</td>
<td>Professionalism Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 427</td>
<td>Engineering Measurements</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 435</td>
<td>Industrial Controls</td>
<td>3</td>
</tr>
</tbody>
</table>

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2. This is a 4 semester credit hour course. 3 credits apply to the Essential Learning requirements and 1 credit applies to Foundation Courses.
3. One course must include a lab.
4. This is a 4 semester credit hour course. 2 credits apply to Essential Learning requirements and 2 credits apply to Foundation Courses.
ENGR 445  MET Design Project I  3
ENGR 446  Writing for Design Projects  1
ENGR 485  MET Design Project II  3

Other Required Courses
CSCI 130  Introduction to Engineering Computer Science  3
ENGL 325  Writing for Engineers  3
STAT 305  Statistics and Quality Control for Engineering  3

Upper Division Engineering Electives
Complete 12 semester hours at the 300 or 400 level with an ENGR prefix or course(s) with advisor approval.

Total Semester Credit Hours  76

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
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<tr>
<td><strong>Fall Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>ENGR 101</td>
<td>Introduction to Engineering</td>
<td>1</td>
</tr>
<tr>
<td>MATH 135</td>
<td>Engineering Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 125</td>
<td>Computer-Aided Design and Fabrication</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 105</td>
<td>Print Reading and Sketching</td>
<td>2</td>
</tr>
<tr>
<td>MAMT 106</td>
<td>Geometric Tolerancing</td>
<td>2</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 136</td>
<td>Engineering Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 140</td>
<td>First-Year Engineering Project</td>
<td>3</td>
</tr>
<tr>
<td>MAMT 102</td>
<td>Machining Fundamentals</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 131</td>
<td>Fundamental Mechanics-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 131L</td>
<td>and Fundamental Mechanics Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td><strong>Second Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
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<tr>
<td>CHEM 151</td>
<td>Engineering Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 151L</td>
<td>and Engineering Chemistry Laboratory</td>
<td></td>
</tr>
<tr>
<td>CSCI 130</td>
<td>Introduction to Engineering Computer Science</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 261</td>
<td>Statics and Structures</td>
<td>3</td>
</tr>
<tr>
<td>KINA Activity</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SSCI 120</td>
<td>Technology and Society-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 325</td>
<td>Writing for Engineers</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 224</td>
<td>Materials Science</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 224L</td>
<td>and Materials Science Laboratory</td>
<td></td>
</tr>
<tr>
<td>ENGR 263</td>
<td>Mechanics of Solids</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td><strong>Third Year</strong></td>
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</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 225</td>
<td>Introduction to Manufacturing</td>
<td>3</td>
</tr>
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<td>Fluid Mechanics</td>
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<td>STAT 305</td>
<td>Statistics and Quality Control for Engineering</td>
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</tr>
<tr>
<td>ENGR 345</td>
<td>Engineering Integration I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 317 &amp; 317L</td>
<td>Fundamentals of Circuits and Electronics and Fundamentals of Circuits and Electronics Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 325</td>
<td>Component Design</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 343</td>
<td>Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 385</td>
<td>Engineering Integration II</td>
<td>3</td>
</tr>
<tr>
<td>ENGR Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fourth Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR 401</td>
<td>Professionalism Seminar</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 427</td>
<td>Engineering Measurements</td>
<td>2</td>
</tr>
<tr>
<td>ENGR 445</td>
<td>MET Design Project I</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td></td>
<td>3</td>
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<tr>
<td>Essential Learning - History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGR Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGR Elective</td>
<td></td>
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</tr>
<tr>
<td>ENGR 435</td>
<td>Industrial Controls</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 446</td>
<td>Writing for Design Projects</td>
<td>1</td>
</tr>
<tr>
<td>ENGR 485</td>
<td>MET Design Project II</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Social/Behavioral Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Semester Credit Hours</strong></td>
<td></td>
<td>16</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
<td>126</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.
Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
MEDICAL LABORATORY TECHNICIAN

Program Description
The Medical Laboratory Technician (MLT) Program at Colorado Mesa University is five semesters in length. Essential Learning requirements and foundation courses are taken the first year and summer, the second year consists mainly of MLT program courses, followed by one semester of clinical internship at an affiliated site in western Colorado.

The majority of MLT courses are delivered in a blended format. Lecture is delivered online with lab sessions held on campus. All MLT courses are taken concurrently for each semester offered and in sequence starting in the fall.

The student will receive an Associate of Applied Science degree upon successful completion of the program. The graduate is eligible to take the Medical Laboratory Technician national certification exam through the American Society for Clinical Pathology (ASCP). A passing score on the ASCP exam will allow the student to use the credentials of MLT (ASCP) CM after their name.

Phlebotomy courses are also offered to non-degree seeking students on a permission and space available basis; see the health sciences department for additional information.

Special Requirements
Admission into the University does not guarantee admission into the medical laboratory technology program which requires a separate application submitted in the spring for fall semester courses. Students planning on enrolling in medical laboratory technology courses must submit additional requirements. See the health sciences department for additional information.

Contact Information
Department of Health Sciences
Health Sciences 101
970.248.1398

Associates
- Medical Laboratory Technician (AAS) (p. 553)

Medical Laboratory Technician (AAS)
Degree: Associate of Applied Science
Major: Medical Laboratory Technician
Program Code: 1641

About This Major . . .
The Medical Laboratory Technician (MLT) Program at Colorado Mesa University is five semesters in length. Essential Learning requirements and foundation courses are taken the first year and summer, the second year consists mainly of MLT program courses, followed by one semester of clinical internship at an affiliated site in western Colorado.

The majority of MLT courses are delivered in a blended format. Lecture is delivered online with lab sessions held on campus. All MLT courses are taken concurrently for each semester offered and in sequence.

The student will receive an Associate of Applied Science degree upon successful completion of the program. The graduate is then eligible to take the Medical Laboratory Technician national certification exam through the American Society for Clinical Pathology (ASCP). A passing score on the ASCP exam will allow the student to use the credentials of MLT (ASCP) CM after their name.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate the theoretical knowledge and technical skills in the performance of routine laboratory testing. (Specialized Knowledge/Applied Learning)
2. Demonstrate error recognition and the ability to integrate and interpret analytical data and establish a course of action to solve problems. (Critical Thinking)
3. Communicate courteously and effectively with laboratory personnel, other health care professionals, patients and the public. (Communication Fluency)
4. Apply mathematical calculations and statistical methods to ensure the accuracy of laboratory test results. (Quantitative Fluency)
5. Demonstrate laboratory practice standards in safety, professional behavior and ethical conduct. (Specialized Knowledge/Applied Learning)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with
your advisor or academic department to determine which catalog year and program requirements you should follow.

- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Specific to this program:**

- 75 semester hours total for the AAS, Medical Laboratory Technician.

**Essential Learning Requirements**

(16 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>4</td>
</tr>
</tbody>
</table>

**Other Essential Learning Core Courses**

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Total Semester Credit Hours

16

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one KINA Activity course</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

2

**Program Specific Degree Requirements**

(57 semester hours, must earn a grade of “C” or better in each course unless otherwise noted. The following applied courses must be completed with a grade of “B” or higher: MLTP 102, MLTP 180, MLTP 182, MLTP 250, and MLTP 252.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following options:</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>CHEM 121 &amp; 121L</td>
<td>Principles of Chemistry-GTSC1 and Principles of Chemistry Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>CHEM 131 &amp; 131L</td>
<td>General Chemistry I-GTSC1 and General Chemistry Laboratory I-GTSC1</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 210</td>
<td>Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 210L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MLTP 101</td>
<td>Phlebotomy</td>
<td>3</td>
</tr>
<tr>
<td>MLTP 132</td>
<td>Clinical Hematology and Coagulation</td>
<td>3</td>
</tr>
<tr>
<td>MLTP 132L</td>
<td>Clinical Hematology and Coagulation Lab</td>
<td>1</td>
</tr>
<tr>
<td>MLTP 138</td>
<td>Clinical Immunology</td>
<td>2</td>
</tr>
<tr>
<td>MLTP 138L</td>
<td>Clinical Immunology Lab</td>
<td>1</td>
</tr>
<tr>
<td>MLTP 141</td>
<td>Clinical Immunohematology</td>
<td>2</td>
</tr>
<tr>
<td>MLTP 141L</td>
<td>Clinical Immunohematology Lab</td>
<td>1</td>
</tr>
<tr>
<td>MLTP 142</td>
<td>Clinical Microscopy</td>
<td>2</td>
</tr>
<tr>
<td>MLTP 142L</td>
<td>Clinical Microscopy Lab</td>
<td>1</td>
</tr>
<tr>
<td>MLTP 231</td>
<td>Clinical Microbiology I</td>
<td>3</td>
</tr>
<tr>
<td>MLTP 231L</td>
<td>Clinical Microbiology I Lab</td>
<td>1</td>
</tr>
<tr>
<td>MLTP 232</td>
<td>Clinical Microbiology II</td>
<td>3</td>
</tr>
<tr>
<td>MLTP 242</td>
<td>Clinical Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>MLTP 242L</td>
<td>Clinical Chemistry Lab</td>
<td>1</td>
</tr>
<tr>
<td>MLTP 275</td>
<td>Capstone Seminar</td>
<td>1</td>
</tr>
<tr>
<td>MLTP 102</td>
<td>Applied Phlebotomy</td>
<td>2</td>
</tr>
<tr>
<td>MLTP 180</td>
<td>Applied Immunohematology</td>
<td>2</td>
</tr>
<tr>
<td>MLTP 182</td>
<td>Applied Hematology and Body Fluids</td>
<td>4</td>
</tr>
<tr>
<td>MLTP 250</td>
<td>Applied Chemistry and Serology</td>
<td>2</td>
</tr>
<tr>
<td>MLTP 252</td>
<td>Applied Microbiology</td>
<td>2</td>
</tr>
<tr>
<td>MLTP 253</td>
<td>Certification Exam Review</td>
<td>1</td>
</tr>
</tbody>
</table>

First Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1 (or Higher)</td>
<td>4</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one KINA Activity course</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

13

**Spring Semester**

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121 &amp; 121L</td>
<td>Principles of Chemistry-GTSC1 and Principles of Chemistry Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>CHEM 131 &amp; 131L</td>
<td>General Chemistry I-GTSC1 and General Chemistry Laboratory I-GTSC1</td>
<td></td>
</tr>
<tr>
<td>BIOL 210</td>
<td>Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 210L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>MLTP 101</td>
<td>Phlebotomy</td>
<td>3</td>
</tr>
<tr>
<td>MLTP 102</td>
<td>Applied Phlebotomy</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

14

**Summer Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td>5</td>
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</tbody>
</table>

Essential Learning - Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Total Semester Credit Hours

6
Second Year

Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essential Learning - Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MLTP 138</td>
<td>Clinical Immunology</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 138L</td>
<td>Clinical Immunology Lab</td>
<td></td>
</tr>
<tr>
<td>MLTP 142</td>
<td>Clinical Microscopy</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 142L</td>
<td>Clinical Microscopy Lab</td>
<td></td>
</tr>
<tr>
<td>MLTP 231</td>
<td>Clinical Microbiology I</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 231L</td>
<td>Clinical Microbiology I Lab</td>
<td></td>
</tr>
</tbody>
</table>

Semester Credit Hours 13

Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLTP 132</td>
<td>Clinical Hematology and Coagulation</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 132L</td>
<td>Clinical Hematology and Coagulation Lab</td>
<td></td>
</tr>
<tr>
<td>MLTP 141</td>
<td>Clinical Immunohematology</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 141L</td>
<td>Clinical Immunohematology Lab</td>
<td></td>
</tr>
<tr>
<td>MLTP 232</td>
<td>Clinical Microbiology II</td>
<td>3</td>
</tr>
<tr>
<td>MLTP 242</td>
<td>Clinical Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 242L</td>
<td>Clinical Chemistry Lab</td>
<td></td>
</tr>
<tr>
<td>MLTP 275</td>
<td>Capstone Seminar</td>
<td>1</td>
</tr>
</tbody>
</table>

Semester Credit Hours 15

Third Year

Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLTP 180</td>
<td>Applied Immunohematology</td>
<td>3</td>
</tr>
<tr>
<td>MLTP 182</td>
<td>Applied Hematology and Body Fluids</td>
<td>4</td>
</tr>
<tr>
<td>MLTP 250</td>
<td>Applied Chemistry and Serology</td>
<td>2</td>
</tr>
<tr>
<td>MLTP 252</td>
<td>Applied Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>MLTP 253</td>
<td>Certification Exam Review</td>
<td>1</td>
</tr>
</tbody>
</table>

Semester Credit Hours 14

Total Semester Credit Hours 75

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
MEDICAL OFFICE ASSISTANT

Program Description
This program prepares individuals to perform routine clinical and administrative functions in health care facilities, primarily medical clinics or physician’s offices. Students who successfully complete this program will be able to perform the administrative tasks of a medical receptionist and work in the clinical areas by providing assistance with physical examinations, diagnostic tests and treatment procedures. All students who successfully complete the program are eligible to take the National Certification Examination offered by the American Medical Technologists, a national certifying agency, to become a Registered Medical Assistant.

Students admitted to health care programs must undergo a background check and maintain current CPR certification and professional liability insurance.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
• Medical Office Assistant (AAS) (p. 556)

Certificates
• Medical Office Assistant (Technical Certificate) (p. 558)

Medical Office Assistant (AAS)
Degree: Associate of Applied Science
Major: Medical Office Assistant
Program Code: 1396

About This Major . . .
This program prepares individuals to perform clinical and administrative functions in health care facilities, primarily medical clinics or physician’s offices. Students successfully completing this program will be able to perform administrative tasks and work in the clinical areas by providing assistance with physical examinations, diagnostic tests, treatments, and procedures.

All students successfully completing the program are eligible to take the national certification examination offered by the American Medical Technologists, a national certifying agency, to become a Registered Medical Assistant.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate proficient client assessment and use of information management systems in the medical setting.
2. Demonstrate accurate mathematical skills and quantitative reasoning as a base for patient care decisions.
3. Demonstrate effective oral and written communication utilizing medical terminology, computerized technology, accurate documentation, and verbal expression.
4. Provide safe, quality care by incorporating evidenced-based practice.

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 60 semester hours minimum.
• Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.

Specific to this degree:
• 61 semester hours total for the AAS, Medical Office Assistant.
• A minimum of 16 hours taken at CMU in no fewer than two semesters.

Essential Learning Requirements
(15 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>or SPCH 102</td>
<td>Speechmaking</td>
<td></td>
</tr>
</tbody>
</table>

Mathematics
MATH 107  Career Math (or higher)  3  

Other Essential Learning Core Courses

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course  3

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course  3

Total Semester Credit Hours  15  

Other Lower Division Requirements

Code  Title  Semester Credit Hours

Wellness Requirement
KINE 100  Health and Wellness  1

Select one Activity course  1

Total Semester Credit Hours  2

Program Specific Degree Requirements

(44 semester hours, must earn a grade of "C" or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOAP 110</td>
<td>Medical Office Administration</td>
<td>4</td>
</tr>
<tr>
<td>MOAP 111</td>
<td>Introduction to Medical Assisting</td>
<td>3</td>
</tr>
<tr>
<td>MOAP 130</td>
<td>Medical Office Administration Insurance Billing and Coding</td>
<td>3</td>
</tr>
<tr>
<td>MOAP 133</td>
<td>Basic Medical Sciences I</td>
<td>4</td>
</tr>
<tr>
<td>MOAP 135</td>
<td>Basic Medical Sciences II</td>
<td>4</td>
</tr>
<tr>
<td>MOAP 136</td>
<td>Introduction to Clinical Skills</td>
<td>2</td>
</tr>
<tr>
<td>MOAP 138</td>
<td>Medical Assisting Laboratory Skills</td>
<td>4</td>
</tr>
<tr>
<td>MOAP 140</td>
<td>Medical Assisting Clinical Skills</td>
<td>4</td>
</tr>
<tr>
<td>MOAP 147</td>
<td>Medical Terminology</td>
<td>4</td>
</tr>
<tr>
<td>MOAP 150</td>
<td>Pharmacology for Medical Assistants</td>
<td>3</td>
</tr>
<tr>
<td>MOAP 183</td>
<td>Medical Assistant Internship</td>
<td>5</td>
</tr>
<tr>
<td>MOAP 189</td>
<td>Review for Medical Assistant National Exam</td>
<td>1</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours  44

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
Medical Office Assistant (Technical Certificate)

Degree: Technical Certificate
Program of Study: Medical Office Assistant
Program Code: 1158

About This Major . . .

This program prepares individuals to perform routine clinical and administrative functions in health care facilities, primarily medical clinics or physician's offices. Students successfully completing this program will be able to perform the administrative tasks of a medical receptionist and work in the clinical areas by providing assistance with physical examinations, diagnostic tests and treatment procedures.

All students successfully completing the program are eligible to take the national certification examination offered by the American Medical Technologists, a national certifying agency, to become a Registered Medical Assistant.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Locate, gather and organize evidence on an assigned topic. (Specialized Knowledge)
2. Use program-level mathematical concepts and methods to understand, analyze, and explain issues in quantitative terms. (Quantitative Fluency)
3. Make and defend claims in a well-organized, professional and/or oral presentation that is appropriate for a specific audience. (Communication Fluency)
4. Identify and gather the information/data relevant to the essential question, issue and/or problem and develop informed conclusions. (Critical Thinking)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.
• Consists of 100-200 level courses.
• At least fifty percent of the credit hours must be taken at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A grade lower than “C” will not be counted toward meeting the requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.

• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this degree:
• 37 semester hours for the Technical Certificate in Medical Office Assistant.

Program Specific Certificate Requirements

(37 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Medical Office Administration</td>
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</tr>
<tr>
<td>MOAP 189</td>
<td>Review for Medical Assistant National Exam</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

37
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
MUSIC

Program Description
The Bachelor of Music with Elective Studies in Business is designed for students who desire a career within the music industry. The comprehensive core curriculum in music includes courses in theory, history, literature, music technology, improvisation, applied study on the major instrument or voice and ensemble performance. Also included are specialized courses in Music Industry and Marketing, Entrepreneurship and Advanced Music Technology. Required business courses include the areas of Marketing, Management, Accounting, Economics, and the Legal Environment of Business. This degree will also result in completion of the requirements for a Certificate in Entrepreneurship. Finally, an internship component provides the opportunity for students to gain real world experience in the music industry areas of their choice. Professional success in the musical arts requires a comprehensive understanding of the new business models at work in our digital world. Our program seeks to provide this up-to-date information to enhance success for the student at every level.

The Bachelor of Music Performance is designed for those students who desire a performance-focused career. A strong core curriculum of musicianship courses includes music theory, history, literature, pedagogy, ensemble performance, and applied study. These courses develop the student's abilities and prepare them to perform in a plethora of venues and genres such as symphony orchestras, chamber ensembles, armed forces ensembles, musical theaters, opera, and countless entertainment venues. As a musician in the 21st Century, this degree also seeks to create excellent performers who "create their own future and not simply enter a future that's been created for them." A second goal of this program is to train musicians with current skills so they have the ability to make their own opportunities, shape their careers like entrepreneurs, produce their own performances, collaborate with artists from other genres and art forms and perform at a high artistic level. Training in the following areas will assist performers to create a meaningful career in music: Creating and Leveraging a Personal Network, Developing and Executing an Action Plan, Identifying Entrepreneurial Opportunities in Music and the Creative Sector, Interdisciplinary Collaborations, E Marketing your Music, Creating an Artist’s Digital Portfolio, Video Marketing, Independent Business Website.

The Bachelor of Music Education (K-12) degree provides students with the knowledge, skills, and musicianship to become a successful music educator. Studies in music theory, history, literature, ensemble performance, and applied study give the student a strong foundation on which to build a successful teaching career. Classes in conducting, instrumental, choral, and elementary techniques as well as music education philosophy develop the skills and knowledge needed for a rewarding career as a K-12 educator. These skills and knowledge are applied during field experiences as well as during the student teaching internship. As a student, you will gradually accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings. A minimum of 75 credits hours of Essential Learning and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education secondary licensure program. Please see the Teacher Education Admission Packet for further information on admissions criteria.

The Bachelor of Arts in Music is a liberal arts degree with a breadth of general studies in English, math, humanities, natural sciences, history, social and behavioral sciences and fine arts. Combined with courses in music theory, music history and literature, ensembles and applied studies, this curriculum provides a strong foundation that when innovatively integrated with 25 course credits of the student’s choosing, allows the flexibility to creatively design a personalized degree program. Students in this major have the ability to create a curriculum tailored to their strengths and career interests that can focus on traditional music, contemporary-commercial music, their own musical compositions or an interdisciplinary program of study, designed by the student.

The minor in instrumental music offers students in other majors the opportunity to stay involved with music in college, gaining experience and skills in music lessons, ensembles and academics. The minor includes three years of ensembles and lessons on an applied instrument; academic courses in music theory, appreciation and literature; as well as an upper division elective.

The vocal music minor provides training and performance opportunities for students seeking music development in voice as their secondary area of study. Fundamental studies in piano, music reading and theory, two years of voice lessons, three years of performing in choral ensembles, studies in diction and conducting and performance training in opera scenes comprise this minor. Audition for acceptance into the vocal minor is required.

The jazz studies minor provides the opportunity for students to obtain a comprehensive set of fundamental skills in the jazz area, including large-ensemble performance, small-group performance, improvisation, composition and arranging, history and literature, and private instruction. Music majors who add this minor will broaden their skill set and marketability beyond the classical music area, and non-music majors may add this minor as a secondary area of study. Entrance to the jazz studies minor requires an audition and prior jazz experience.

Special Requirements
Students seeking admittance as a music major must pass a performance audition, a music theory placement exam and a piano proficiency assessment. Admission to Colorado Mesa University does not guarantee admission into a music degree program. Prospective music majors should consult the music department website or contact the music department for information about audition material and scheduling an audition with the faculty in their area of interest.

Following the audition, students will be notified by letter regarding audition results. Students admitted as new music majors will be assigned an advisor and should plan to attend an orientation, registration and advising session. If the advisor is unavailable, students should contact the Department Head of Music.

Contact Information
Department of Music
Moss Performing Arts Center 113
970.248.1233

Bachelors/Minors
- Education: Music Education K-12 (BME) (p. 563)
- Jazz Studies (Minor) (p. 581)
- Liberal Arts, Music (BA) (p. 561)
- Music - Instrumental (Minor) (p. 582)
Liberal Arts, Music (BA)

Degree: Bachelor of Arts
Major: Music
Concentration: Liberal Arts
Program Code: 3253

About This Major . . .

The Bachelor of Arts in Music is a liberal arts degree with a breadth of general studies in English, math, humanities, natural sciences, history, social and behavioral sciences and fine arts. Combined with courses in music theory, music history and literature, ensembles and applied studies, this curriculum provides a strong foundation that when innovatively integrated with 25 course credits of the student’s choosing, allows the flexibility to creatively design a personalized degree program. Students in this major have the ability to create a curriculum tailored to their strengths and career interests that can focus on traditional music, contemporary-commercial music, their own musical compositions or an interdisciplinary program of study, designed by the student.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major must:

1. Develop and express music judgments through solo performance. (Critical Thinking)
2. Use understanding of music to formulate insights, perspectives, or demonstrate practical applications relating to other disciplines. (Specialized Knowledge)
3. Conduct research on a specialized topic in music that results in a well-organized document or oral presentation. (Communication Fluency)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

- Some Essential Learning credits will have to be completed in the junior year.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTC01</td>
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</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTC02</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.
Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td><strong>Wellness Requirement</strong></td>
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<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
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</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Essential Learning Capstone</strong></td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(23 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 111</td>
<td>Music Technology</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 114</td>
<td>Theory I-Introduction</td>
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<tr>
<td>MUSA 115</td>
<td>Theory II-Diatonic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 116</td>
<td>Ear Training and Sightsing I</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 117</td>
<td>Ear Training and Sightsing II</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 214</td>
<td>Theory III - Chromatic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 215</td>
<td>Theory IV - Twentieth Century Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSL 1__</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 2__</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 1__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 2__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>23</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements
(35 semester hours, a 2.0 cumulative GPA or higher is required in coursework toward the major content area.)

- Students deficient in piano skills will be required to complete MUSA 130 (2), MUSA 131 (2), MUSA 230 (2), and/or MUSA 231 (2), in the first two years.
- Students must meet departmental recital/concert attendance requirements.
- Students must pay close attention to the Department’s two-year course rotation.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
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</tr>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
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<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>0</td>
</tr>
</tbody>
</table>

Upper Division Music Electives
Select from any 300- or 400-level MUSA, MUSL, or MUSP courses 5

Foreign Language
Two consecutive courses in the same foreign language 1 6

Total Semester Credit Hours 35

1 Must receive a grade of “C” or better. FLAS 114 and FLAS 115 will NOT fulfill this requirement.

General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 25 semester hours, at least 15 upper division hours will be needed.
### Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 215</td>
<td>Theory IV - Twentieth Century Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSL 2</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 2</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - Natural Science with Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester Credit Hours
15

### Third Year

#### Fall Semester

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<thead>
<tr>
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<th>Course Name</th>
<th>Credits</th>
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<tbody>
<tr>
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<td>Beginning Conducting</td>
<td>2</td>
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<td>General Elective</td>
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<td>3</td>
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</tbody>
</table>

#### Semester Credit Hours
17

#### Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
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</tr>
<tr>
<td>Music Literature Course</td>
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</tr>
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<td>MUSL 3</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 3</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - History</td>
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<td>3</td>
</tr>
<tr>
<td>Foundation Course - Foreign Language</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
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<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
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<td>Upper Division Music Elective</td>
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#### Semester Credit Hours
18

### Fourth Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 250</td>
<td>Beginning Conducting</td>
<td>2</td>
</tr>
<tr>
<td>General Elective (2 courses)</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

#### Semester Credit Hours
16-17

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

### Education: Music Education K-12 (BME)

Degree: Bachelor of Music Education
Major: Music Education K-12
Program Code: 3282
About This Major . . .

The Music Education K-12 degree provides students with the knowledge, skills, and musicianship to become a successful music educator. Studies in music theory, history, literature, ensemble performance, and applied study give the student a strong foundation on which to build a successful teaching career. Classes in conducting, instrumental, choral, and elementary techniques develop the skills and knowledge needed for a rewarding career as a K-12 educator. These skills and knowledge are applied during field experiences as well as during the student teaching internship.

As a student, you will gradually accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout western Colorado provide opportunities to gain experience with children of all ages and backgrounds in a variety of school settings.

A minimum of 75 credit hours of Essential Learning and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education secondary licensure program. Please see the Teacher Education Admission Packet for further information on admissions criteria.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

In addition to these institutional outcomes, graduates of this major must be able to:

Music Education Outcomes:

1. Develop and express music judgments through solo performances (Intellectual Skills – Critical Thinking)
2. Identify current national and state music education standards (Specialized Knowledge)
3. Demonstrate strategies associated with teaching general music curricula (Specialized Knowledge)
4. Conduct research on a specialized topic in music that results in a well-organized document or oral presentation (Intellectual Skills – Communication Fluency)
5. Demonstrate teaching techniques in an instrumental or vocal setting (Specialized Knowledge)

Teacher Education Outcomes:

1. Instruct K-12 students based on self-written learning plans to address individual learning and developmental patterns in Music (Specialized Knowledge)
2. Design a safe and supportive learning environment for elementary and secondary education students. (Applied Learning)
3. Apply Music content knowledge while working with learners to access information in real world settings assuring learner mastery of the content. (Specialized Knowledge)
4. Integrate assessment, planning, and instructional strategies in coordinated and engaging way through multiple means of communication. (Critical Thinking/Communication Fluency)
5. Engage in meaningful and intensive professional learning and self-renewal by regularly examining practice through ongoing study, self-reflection, and collaboration. (Applied Learning)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:

- 126 semester hours required for the BME in Music Education K-12.
- 2.80 cumulative GPA or higher in all CMU coursework.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

For this program, some Essential Learning credits will have to be completed in the junior year. See suggested course sequencing for more details.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
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</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1
2

564 Education: Music Education K-12 (BME)
Select one History course 3

**Humanities**
Select one Humanities course 3

**Social and Behavioral Sciences**
PSYC 233 Human Growth and Development-GTSS3 3
Select one Social and Behavioral Sciences course 3

**Fine Arts**
Select one Fine Arts course 3

**Natural Sciences** 4
Select one Natural Sciences course 3
Select one Natural Sciences course with a lab 4

Total Semester Credit Hours 31

1. Must receive a grade of “B” or better and must be completed by the time the student has 60 semester hours.
2. Must receive a grade of “C” or better, must be completed by the time the student has 60 semester hours.
3. Must receive a grade of “B” or better.
4. One course must include a lab.

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>KINE 100</td>
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</table>

Select one Activity Course 1

**Essential Learning Capstone** 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
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</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

(23 semester hours, must pass all courses with a “C” or better)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 111</td>
<td>Music Technology</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 114</td>
<td>Theory I-Introduction</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 115</td>
<td>Theory II-Diatonic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 116</td>
<td>Ear Training and SightsingI</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 117</td>
<td>Ear Training and SightsingII</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 214</td>
<td>Theory III - Chromatic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 215</td>
<td>Theory IV - Twentieth Century Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSL 1__</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 1__</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 2__</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 1__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 1__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
</tbody>
</table>

**Program Specific Degree Requirements**

(65-66 semester hours, must pass all courses with a “C” or better and maintain a 2.80 cumulative GPA or higher in coursework in this area.)

- Students must meet departmental recital/concert attendance requirements.
- Students deficient in piano skills will be required to complete MUSA 130 (2), MUSA 131 (2), MUSA 230 (2), MUSA 231 (2), in the first two years.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 101</td>
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<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
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<tr>
<td>MUSA 101</td>
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<tr>
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<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
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</tr>
<tr>
<td>MUSA 250</td>
<td>Beginning Conducting</td>
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</tr>
<tr>
<td>MUSA 268</td>
<td>Beginning Jazz Improvisation</td>
<td>0-1</td>
</tr>
</tbody>
</table>

Select one of the following: 3

- MUSA 302 Keyboard Literature I
- MUSA 303 Symphonic Literature
- MUSA 304 Keyboard Literature II
- MUSA 319 Choral Literature
- MUSA 317 Applied Orchestration and Arranging 2
- MUSA 326 Music History and Literature I 3
- MUSA 327 Music History and Literature II 3
- MUSA 426 The Music of World Cultures 2
- MUSP 365 Opera Workshop (This 1 credit hour requirement is for vocal students only.) 0-1

<table>
<thead>
<tr>
<th>Code</th>
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<th>Semester Credit Hours</th>
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<td>MUSL 2__</td>
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<tr>
<td>MUSL 3__</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 3__</td>
<td>Music Lesson</td>
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<td>MUSL 4__</td>
<td>Music Lesson</td>
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<td>MUSP 420</td>
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Total Semester Credit Hours 24-26
Music Education K-12 Requirements Option 1: Instrumental and Keyboard Focus ²

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<td>MUSA 137</td>
<td>Class Voice</td>
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<td>MUSA 232</td>
<td>String Pedagogy and Materials</td>
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<tr>
<td>MUSA 233</td>
<td>Woodwind Pedagogy and Materials</td>
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<tr>
<td>MUSA 234</td>
<td>Brass Pedagogy and Materials</td>
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<tr>
<td>MUSA 235</td>
<td>Percussion Pedagogy and Materials</td>
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<tr>
<td>MUSA 240</td>
<td>Introduction to Music Education (30 field experience hours)</td>
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<tr>
<td>MUSA 340</td>
<td>Teaching Elementary and General Music: Methods, Principles, and Materials (30 field experience hours)</td>
<td>3</td>
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<tr>
<td>Select one of the following:</td>
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<tr>
<td>MUSA 350A</td>
<td>Advanced Conducting: Choral</td>
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<tr>
<td>MUSA 350B</td>
<td>Advanced Conducting: Instrumental</td>
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</tr>
<tr>
<td>MUSA 440</td>
<td>Teaching Vocal Music K-12: Methods, Principles, and Materials (35 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 441</td>
<td>Teaching Instrumental Music K-12: Methods, Principles, and Materials (35 field experience hours)</td>
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Select one of the following: 2

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<tr>
<td>MUSA 442A</td>
<td>Teaching Special Ensembles: Choral (30 field experience hours)</td>
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<tr>
<td>MUSA 442B</td>
<td>Teaching Special Ensembles: Instrumental (30 field experience hours)</td>
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Total Semester Credit Hours 24

Music Education K-12 Requirements Option 2: Vocal Focus ²

Select two of the following: 4

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<td>String Pedagogy and Materials</td>
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<td>Woodwind Pedagogy and Materials</td>
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<td>MUSA 234</td>
<td>Brass Pedagogy and Materials</td>
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<td>MUSA 235</td>
<td>Percussion Pedagogy and Materials</td>
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<td>MUSA 337</td>
<td>Singer’s Diction 1: English and German</td>
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<td>MUSA 410</td>
<td>Vocal Pedagogy</td>
<td>3</td>
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<tr>
<td>MUSA 437</td>
<td>Singer’s Diction 2: Italian and French</td>
<td>1</td>
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<td>MUSA 240</td>
<td>Introduction to Music Education (30 field experience hours)</td>
<td>2</td>
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<tr>
<td>MUSA 340</td>
<td>Teaching Elementary and General Music: Methods, Principles, and Materials (30 field experience hours)</td>
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Select one of the following: 2

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<tbody>
<tr>
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<td>Advanced Conducting: Choral</td>
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<tr>
<td>MUSA 350B</td>
<td>Advanced Conducting: Instrumental</td>
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<tr>
<td>MUSA 440</td>
<td>Teaching Vocal Music K-12: Methods, Principles, and Materials (35 field experience hours)</td>
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<tr>
<td>MUSA 441</td>
<td>Teaching Instrumental Music K-12: Methods, Principles, and Materials (35 field experience hours)</td>
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</table>

All EDUC prefix courses listed above must be completed with a grade of “B” or better to progress through the program sequence. Students must take the PRAXIS II exam in the content area prior to commencing the internship. Also, ALL other coursework toward the degree must be successfully completed prior to the internship.

Suggested 8-semester course sequencing

It is highly suggested to take summer and J-term courses to finish the degree in this time frame. Most students require remedial piano courses to meet their piano proficiency requirement as well.

While the total semester hours below reads 122-134, students in this program (both vocal and keyboard/instrumental) actually complete a minimum of 126 hours. This variation in the total hours count is due to differences in requirements for vocal versus instrumental and keyboard students and how specific course ranges reflect in the total count.
KINE 100 Health and Wellness 1
PSYC 233 Human Growth and Development-GTSS3 3
Essential Learning - Natural Science 3

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**Spring Semester**

MUSA 101 Concert Attendance 0
MUSL 1__ Music Lesson 1
MUSP 1__ Music Performance 1
MUSA 115 Theory II-Diatomic Concepts 3
MUSA 117 Ear Training and Sightsinging II 2
ENGL 112 English Composition-GTCO2 3
KINA Activity 1
Essential Learning - Social and Behavioral Sciences 3

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**Second Year**

**Fall Semester**

MUSA 101 Concert Attendance 0
MUSL 2__ Music Lesson 1
MUSP 2__ Music Performance 1
MUSA 214 Theory III - Chromatic Concepts 3
MUSA 240 Introduction to Music Education 2
MUSA 232 or MUSA 233 String Pedagogy and Materials 2
MUSA 268 Beginning Jazz Improvisation for instrumental and keyboard students only 0-1
MATH 110 College Mathematics-GTMA1 3
Essential Learning - Natural Science with Lab 4
Essential Learning - Fine Arts 3

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<th>Semester Credit Hours</th>
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**Spring Semester**

MUSA 101 Concert Attendance 0
MUSL 2__ Music Lesson 1
MUSP 2__ Music Performance 1
MUSA 215 Theory IV - Twentieth Century Form and Analysis 3
Essential Learning - Humanities 3
MUSA 234 or MUSA 235 Brass Pedagogy and Materials 2
MUSA 250 Beginning Conducting 2
MUSA 3__ Symphonic, Keyboard, or Choral Literature 3
MUSA 4__ Instrumental or Vocal Methods K-12 3
EDUC 115 What Means To Be An Educator 1
EDUC 215 Teaching as a Profession 1

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**Third Year**

**Fall Semester**

MUSA 101 Concert Attendance 0
MUSL 3__ Music Lesson 1
MUSP 3__ Music Performance 1
MUSA 233 or MUSA 232 Woodwind Pedagogy and Materials 2
MUSA 337 Singer's Diction I: English and German (Vocal students only) 0-2
Select one of the following: 2-3
MUSA 340 Teaching Elementary and General Music: Methods, Principles, and Materials 3
MUSA 442A Teaching Special Ensembles: Choral 3
MUSA 442B Teaching Special Ensembles: Instrumental 3
MUSA 337 Singer's Diction I: English and German (Vocal students only) 0-2
MUSA 350A or MUSA 350B Advanced Conducting: Choral 2
MUSA 326 Music History and Literature I 3
ESSL 290 Maverick Milestone 3

MUSA 101 Concert Attendance 0
MUSL 1__ Music Lesson 1
MUSP 1__ Music Performance 1
MUSA 114 Theory I - Introduction 3
MUSA 116 Ear Training and Sightsinging I 2

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<td>MUSL 1__</td>
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<td>MUSP 3__</td>
<td>Music Performance</td>
<td>1</td>
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<tr>
<td>MUSA 235</td>
<td>Percussion Pedagogy and Materials (Instrumental and</td>
<td>0-2</td>
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<tr>
<td>or MUSA 234</td>
<td>Keyboard students only</td>
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<tr>
<td>MUSA 246</td>
<td>The Music of World Cultures</td>
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<tr>
<td>MUSA 327</td>
<td>Music History and Literature II</td>
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<td>MUSA 4__</td>
<td>Instrumental OR Vocal Methods</td>
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<td>MUSA 437</td>
<td>Singer's Diction II: Italian and French (Vocal students only)</td>
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<td>MUSA 410</td>
<td>Vocal Pedagogy</td>
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<td>EDUC 343</td>
<td>Teaching to Diversity</td>
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<td>EDUC 499D</td>
<td>Teaching Internship and Colloquia: Elementary for K-12</td>
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<td>EDUC 499H</td>
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<td>MUSA 442A</td>
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<td>MUSA 442B</td>
<td>Teaching Special Ensembles: Instrumental</td>
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<td>MUSA 340</td>
<td>Teaching Elementary and General Music: Methods,</td>
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<tr>
<td>or MUSA 234</td>
<td>Principles, and Materials</td>
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<td>MUSA 350A</td>
<td>Advanced Conducting: Choral</td>
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<tr>
<td>or MUSA 350B</td>
<td>Advanced Conducting: Instrumental</td>
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<td>MUSA 326</td>
<td>Music History and Literature I</td>
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<td>ESSL 290</td>
<td>Maverick Milestone</td>
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<td>MUSA 101</td>
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<td>MUSL 1__</td>
<td>Music Lesson</td>
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<td>MUSP 1__</td>
<td>Music Performance</td>
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<td>MUSA 114</td>
<td>Theory I - Introduction</td>
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<tr>
<td>MUSA 116</td>
<td>Ear Training and Sightsinging I</td>
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</table>

### Suggested 9-semester course sequencing

It is highly suggested to take summer and J-term courses to finish the degree in this time frame. Most students require remedial piano courses to meet their piano proficiency requirement as well.

While the total semester hours below reads 121-135, students in this program (both vocal and keyboard/instrumental) actually complete a minimum of 126 hours. This variation in the total hours count is due to differences in requirements for vocal versus instrumental and keyboard students and how specific course ranges reflect in the total count.

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<thead>
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<td>MUSL 1__</td>
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<td>MUSP 1__</td>
<td>Music Performance</td>
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<td>MUSA 114</td>
<td>Theory I - Introduction</td>
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<tr>
<td>MUSA 116</td>
<td>Ear Training and Sightsinging I</td>
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</table>
Education: Music Education K-12 (BME)

MUSP 111 Music Technology 1
ENGL 111 English Composition-GT001 3
KINE 100 Health and Wellness 1

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<td>MUSL 1 Music Lesson</td>
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<td>MUSA 115 Theory II-Diatomic Concepts</td>
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<td>MUSA 117 Ear Training and Sightsinging II</td>
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<td>ENGL 112 English Composition-GTO02</td>
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<td>PSYC 223 Human Growth and Development-GTSS3</td>
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<td>KINA Activity</td>
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<th><strong>Second Year</strong></th>
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<td>MUSA 214 Theory III - Chromatic Concepts</td>
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<td>MUSA 232 String Pedagogy and Materials</td>
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<td>or MUSA 233</td>
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<td>MUSA 268 Beginning Jazz Improvisation (for instrumental and keyboard students only)</td>
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<td>MATH 110 College Mathematics-GTMA1</td>
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<td>Essential Learning - Natural Science with Lab</td>
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<td>MUSA 234 or MUSA 235 Brass Pedagogy and Materials</td>
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<td>or Percussion Pedagogy and Materials</td>
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<td>MUSA 250 Beginning Conducting</td>
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<td>EDUC 115 What It Means To Be An Educator</td>
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<td>MUSP 3 Music Performance</td>
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<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
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<td>MUSA 350A or MUSA 350B Advanced Conducting: Choral</td>
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<td>or Advanced Conducting: Instrumental</td>
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<td>MUSA 326 Music History and Literature</td>
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<td>ESSL 290 Maverick Milestone</td>
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| MUSA 235 or MUSA 234 Percussion Pedagogy and Materials (Instrumental and Keyboard students only) or Brass Pedagogy and Materials | 0:2 |
| MUSA 426 The Music of World Cultures | 2 |
| MUSA 327 Music History and Literature II | 3 |
| MUSA 4__ Instrumental OR Vocal Methods | 3 |
| EDUC 343 Teaching to Diversity | 3 |

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<td>Essential Learning - History</td>
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<td>MUSA 317 Applied Orchestration and Arranging</td>
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<td>MUSA 137 Class Voice (Instrumental and Keyboard students only)</td>
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<td>MUSA 442B Teaching Special Ensembles: Instrumental</td>
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<td>Select one of the following: (may only earn credit for 340 once and for 442A or 442B once)</td>
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<td>MUSA 337 Singer’s Diction 1: English and German (Vocal students only)</td>
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<td>MUSP 365 or MUSP 465 Opera Workshop (Vocal students only)</td>
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<td>MUSA 437 Singer’s Diction 2: Italian and French (Vocal students only)</td>
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<td>MUSA 410 Vocal Pedagogy (Vocal students only)</td>
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<td>EDUC 499D Teaching Internship and Colloquia: Elementary for K12</td>
<td>6</td>
</tr>
<tr>
<td>EDUC 499H Teaching Internship and Colloquia: Secondary for K12</td>
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</table>

| Total Semester Credit Hours | 121:135 |

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).
DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Music Performance - Instrumental (BM)
Degree: Bachelor of Music
Major: Music Performance – Instrumental Performance
Program Code: 3285

About This Major . . .
The Bachelor of Music Performance is designed for those students who desire a performance-focused career. A strong core curriculum of musicianship courses includes music theory, history, literature, pedagogy, ensemble performance, and applied study. These courses develop the student's abilities and prepare him or her to perform in a plethora of venues. As a musician in the 21st Century, this degree also seeks to create excellent performers who create their own future. This program will train musicians with professional skills to make their own opportunities, shape their careers like entrepreneurs, produce their own performances, collaborate with artists from other genres and art forms, and perform at a high artistic level. Training in the following areas will assist performers to create a meaningful career in music: identifying entrepreneurial opportunities in music and the creative sector, interdisciplinary collaborations, e-marketing your music, creating an artist's digital portfolio, video marketing, and independent business website.

Graduates of this major must be able to:

1. Develop and express music judgments through solo performances (Critical Thinking)
2. Demonstrate knowledge of music history and music theory in oral and written presentations. (Communication Fluency)

3. Synthesize knowledge of repertory and pedagogy specific to the student's instrument. (Specialized Knowledge)
4. Create digital portfolio, and create their own marketing and/or business brand that reflects current trends in the music profession. (Communication Fluency)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
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</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

History
Select one History course

Humanities
Select one Humanities course 3

Social and Behavioral Sciences
Select one Social and Behavioral Sciences course 3
Select one Social and Behavioral Sciences course 3

Fine Arts
Select one Fine Arts course 3

Natural Sciences 2
Select one Natural Sciences course 3
Select one Natural Sciences course with a lab 4

Total Semester Credit Hours 31

1 Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
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<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
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<tr>
<td>Select one Activity course</td>
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<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
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<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(24 semester hours, must pass each course with a grade of "C" or better.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>MUSA 111</td>
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<td>1</td>
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<tr>
<td>MUSA 114</td>
<td>Theory I-Introduction</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 115</td>
<td>Theory II-Diatomic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 116</td>
<td>Ear Training and Sightsinging I</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 117</td>
<td>Ear Training and Sightsinging II</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 214</td>
<td>Theory III - Chromatic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 215</td>
<td>Theory IV - Twentieth Century Form and Analysis</td>
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<tr>
<td>MUSL 1__</td>
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<tr>
<td>MUSL 2__</td>
<td>Music Lesson</td>
<td>2</td>
</tr>
<tr>
<td>MUSP 1__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 1__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 2__</td>
<td>Music Performance</td>
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<tr>
<td>Total Semester Credit Hours</td>
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<td>24</td>
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</tbody>
</table>

Program Specific Degree Requirements
(53 semester hours, must pass all courses with a "C" or better and maintain a 2.0 cumulative GPA or higher in coursework in this area.)

• MUSP and MUSL credits may only be used once on a program sheet. Student should consult their advisor when determining the section to use these courses.
• Students deficient in piano skills will be required to complete MUSA 130, MUSA 131, MUSA 230, and MUSA 231 in the first two years. Some Essential Learning credits will have to be completed in the junior year.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
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<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
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<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
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<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 101</td>
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<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
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<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
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<tr>
<td>MUSA 101</td>
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<tr>
<td>MUSA 250</td>
<td>Beginning Conducting</td>
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<tr>
<td>MUSA 258</td>
<td>Introduction to Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 268</td>
<td>Beginning Jazz Improvisation</td>
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<td>Advanced Music Technology</td>
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<td>MUSA 317</td>
<td>Applied Orchestration and Arranging</td>
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</tr>
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<td>MUSA 326</td>
<td>Music History and Literature I</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 327</td>
<td>Music History and Literature II</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 363</td>
<td>Music Industry and Marketing</td>
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<tr>
<td>MUSA 365</td>
<td>Entrepreneurship for Creatives</td>
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</tr>
<tr>
<td>MUSA 426</td>
<td>The Music of World Cultures</td>
<td>2</td>
</tr>
<tr>
<td>MUSP 320</td>
<td>Junior Recital</td>
<td>1</td>
</tr>
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<td>MUSL 1__</td>
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<td>MUSL 2__</td>
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<td>MUSL 3__</td>
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<tr>
<td>MUSL 4__</td>
<td>Music Lesson</td>
<td>2</td>
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<tr>
<td>MUSL 4__</td>
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<td>MUSP 3__</td>
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<td>MUSP 4__</td>
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<td>1</td>
</tr>
<tr>
<td>MUSP 420</td>
<td>Senior Recital/Presentation</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 303</td>
<td>Symphonic Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUSL 340</td>
<td>Instrumental Pedagogy and Literature</td>
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<tr>
<td>MUSL 340</td>
<td>Instrumental Pedagogy and Literature</td>
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</tr>
<tr>
<td>Select 4 semester hours chosen from MUSA 368, MUSA 350B, or upper division MUSP Music Performance Ensembles.</td>
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<tr>
<td>MUSL __</td>
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<tr>
<td>MUSL __</td>
<td>Music Lesson</td>
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<tr>
<td>MUSL __</td>
<td>Music Lesson</td>
<td>1</td>
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</table>
MUSL ___ Music Lesson 1

Select 3 semester hours chosen from Fine and Performing Arts, must be outside of the concentration

Total Semester Credit Hours 55

Must receive a grade of "C" or better. FLAS 114 and FLAS 115 will NOT fulfill this requirement.

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 4 semester hours.

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</tr>
<tr>
<td>MUSA 114</td>
<td>Theory I - Introduction</td>
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</tr>
<tr>
<td>MUSA 116</td>
<td>Ear Training and Sightsinging I</td>
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</tr>
<tr>
<td>MUSA 111</td>
<td>Music Technology</td>
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</tr>
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<td>ENGL 111</td>
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<td>MUSA 327</td>
<td>Music History and Literature II</td>
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<td>MUSL 341</td>
<td>Advanced Music Technology</td>
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<td>MUSL 365</td>
<td>Entrepreneurship for Creatives</td>
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<td>Junior Recital</td>
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</tr>
<tr>
<td>MUSA 303</td>
<td>Symphonic Literature or MUSA 426</td>
<td>2-3</td>
</tr>
<tr>
<td>MUSL 4___</td>
<td>Music Lesson</td>
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<tr>
<td>MUSP 4___</td>
<td>Music Performance</td>
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</tr>
<tr>
<td>MUSL 4___</td>
<td>Essential Learning - Humanities</td>
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</tr>
<tr>
<td>MUSL 4___</td>
<td>Essential Learning - Social and Behavioral Sciences</td>
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<td>Senior Recital/Presentation</td>
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<td>MUSA 214</td>
<td>Theory II - Diatonic Concepts</td>
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</tr>
<tr>
<td>MUSA 268</td>
<td>Ear Training and Sightsinging II</td>
<td>2</td>
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<td>MUSL 1___</td>
<td>Music Lesson</td>
<td>2</td>
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<tr>
<td>MUSP 1___</td>
<td>Music Performance</td>
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</tr>
<tr>
<td>MUSA 258</td>
<td>Introduction to Improvisation</td>
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</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GT002</td>
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<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
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<td>Semester Credit Hours</td>
<td>17</td>
</tr>
<tr>
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<td>Spring Semester</td>
<td>13-14</td>
</tr>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
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<table>
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<tbody>
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<td>Third Year</td>
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<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 317</td>
<td>Applied Orchestration and Arranging</td>
<td>2</td>
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<tr>
<td>MUSA 326</td>
<td>Music History and Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUSL 340</td>
<td>Instrumental Pedagogy and Literature</td>
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</tr>
<tr>
<td>MUSL 3___</td>
<td>Music Lesson</td>
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</tr>
<tr>
<td>MUSP 3___</td>
<td>Music Performance</td>
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<tr>
<td></td>
<td>Foundation Course - Foreign Language</td>
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<tr>
<td></td>
<td>Select one of the following:</td>
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<tr>
<td>MUSA 350B</td>
<td>Advanced Conducting: Instrumental</td>
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<td>MUSP XXX</td>
<td>Performance Ensembles</td>
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<tr>
<td>MUSA 363</td>
<td>Music Industry and Marketing</td>
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</tr>
<tr>
<td></td>
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<td>17</td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td>17</td>
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<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 303</td>
<td>Symphonic Literature or MUSA 426</td>
<td>2-3</td>
</tr>
<tr>
<td>MUSA 327</td>
<td>Music History and Literature II</td>
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</tr>
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</tr>
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<td>MUSL 341</td>
<td>Advanced Music Technology</td>
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<td>MUSL 365</td>
<td>Entrepreneurship for Creatives</td>
<td>3</td>
</tr>
<tr>
<td>MUSP 320</td>
<td>Junior Recital</td>
<td>1</td>
</tr>
<tr>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td>Fourth Year</td>
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<td>MUSA 101</td>
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<td>MUSA 303</td>
<td>Symphonic Literature or MUSA 426</td>
<td>2-3</td>
</tr>
<tr>
<td>MUSL 4___</td>
<td>Music Lesson</td>
<td>2</td>
</tr>
<tr>
<td>MUSP 4___</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 420</td>
<td>Senior Recital/Presentation</td>
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</tr>
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<td></td>
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<td></td>
<td>Total Semester Credit Hours</td>
<td>120-122</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It
is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Music Performance - Keyboard (BM)**

Degree: Bachelor of Music

Major: Music Performance – Keyboard Performance

Program Code: 3286

**About This Major . . .**

The Bachelor of Music Performance is designed for those students who desire a performance-focused career. A strong core curriculum of musicianship courses includes music theory, history, literature, pedagogy, ensemble performance, and applied study. These courses develop the student’s abilities and prepare them to perform in a plethora of venues. As a musician in the 21st Century, this degree also seeks to create excellent performers who create their own future. This program will train musicians with professional skills to make their own opportunities, shape their careers like entrepreneurs, produce their own performances, collaborate with artists from other genres and art forms and perform at a high artistic level. Training in the following areas will assist performers to create a meaningful career in music: identifying entrepreneurial opportunities in music and the creative sector, interdisciplinary collaborations, e-marketing your music, creating an artist’s digital portfolio, video marketing, and independent business website.

Graduates of this major must be able to:

1. Develop and express music judgments through solo performances (Critical Thinking)
2. Demonstrate knowledge of music history and music theory in oral and written presentations. (Communication Fluency)
3. Synthesize knowledge of repertory and pedagogy specific to the student’s instrument. (Specialized Knowledge)
4. Create digital portfolio, and create their own marketing and/or business brand that reflects current trends in the music profession. (Communication Fluency)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Select one Humanities course

Social and Behavioral Sciences
Select one Social and Behavioral Sciences course
Select one Social and Behavioral Sciences course

Fine Arts
Select one Fine Arts course

Natural Sciences
Select one Natural Sciences course
Select one Natural Sciences course with a lab

Total Semester Credit Hours 31

1 Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wellness Requirement</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
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<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Essential Learning Capstone</td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
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<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
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<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>6</td>
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</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

(24 semester hours, must pass each course with a "C" or better.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 111</td>
<td>Music Technology</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 114</td>
<td>Theory I-Introduction</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 115</td>
<td>Theory II-Diatonic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 116</td>
<td>Ear Training and Sightsinging I</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 117</td>
<td>Ear Training and Sightsinging II</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 214</td>
<td>Theory III - Chromatic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 215</td>
<td>Theory IV - Twentieth Century Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSL 1__</td>
<td>Music Lesson</td>
<td>2</td>
</tr>
<tr>
<td>MUSL 2__</td>
<td>Music Lesson</td>
<td>2</td>
</tr>
<tr>
<td>MUSP 1__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 1__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 2__</td>
<td>Music Performance</td>
<td>1</td>
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<tr>
<td></td>
<td>Total Semester Credit Hours</td>
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</table>

Program Specific Degree Requirements

(57 semester hours, must pass each course with a "C" or better and maintain a 2.0 cumulative GPA or higher in coursework in this area.)

• MUSP and MUSL credits may only be used once on a program sheet. Student should consult their advisor when determining the section to use these courses.
• Students deficient in piano skills will be required to complete MUSA 130, MUSA 131, MUSA 230, and MUSA 231 in the first two years. Some Essential Learning credits will have to be completed in the junior year.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSP 420</td>
<td>Senior Recital/Presentation</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 4__</td>
<td>Music Lesson</td>
<td>2</td>
</tr>
<tr>
<td>MUSP 4__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Foreign Language</td>
<td>3</td>
</tr>
</tbody>
</table>

One courses in the foreign language 1

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSP 2__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 3__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 4__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 420</td>
<td>Senior Recital/Presentation</td>
<td>1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSP 420</td>
<td>Senior Recital/Presentation</td>
<td>1</td>
</tr>
</tbody>
</table>

Select 3 semester hours from Fine and Performing Arts, must be outside of the concentration

Total Semester Credit Hours 57
Must receive a grade of "C" or better. FLAS 114 and FLAS 115 will NOT fulfill this requirement.

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 2 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
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</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>2</td>
</tr>
</tbody>
</table>

Course Title Semester Credit Hours

First Year

Fall Semester

MUSA 101 Concert Attendance 0
MUSA 114 Theory I-Introduction 3
MUSA 116 Ear Training and Sightsinging I 2
MUSA 111 Music Technology 1
MUSL 1__ Music Lesson 2
MUSP 1__ Music Performance 1
MATH 110 College Mathematics-GTMA1 3
ENGL 111 English Composition-GTO01 3

Semester Credit Hours 18

Spring Semester

MUSA 101 Concert Attendance 0
MUSA 115 Theory II-Diatonic Concepts 3
MUSA 117 Ear Training and Sightsinging II 2
MUSL 1__ Music Lesson 2
MUSP 1__ Music Performance 1
MATH 110 College Mathematics-GTMA1 3
ENGL 111 English Composition-GTO01 3

Semester Credit Hours 18

Second Year

Fall Semester

MUSA 101 Concert Attendance 0
MUSA 214 Theory III - Chromatic Concepts 3
MUSA 258 Introduction to Improvisation 1
KINE 100 Health and Wellness 1
MUSL 2__ Music Lesson 2
MUSP 2__ Music Performance 1

Essential Learning - Natural Science with Lab 4
Essential Learning - History 3
General Elective 2

Semester Credit Hours 17

Spring Semester

MUSA 101 Concert Attendance 0
MUSA 215 Theory IV - Twentieth Century Form and Analysis 3
MUSL 2__ Music Lesson 2
MUSP 2__ Music Performance 1
MUSA 268 Beginning Jazz Improvisation 1
MUSA 250 Beginning Conducting 2

Essential Learning - Humanities 3
ESSL 290 Maverick Milestone 3

Semester Credit Hours 17

Third Year

Fall Semester

MUSA 101 Concert Attendance 0
MUSA 411 Piano Pedagogy 3
MUSA 326 Music History and Literature I 3
MUSL 3__ Music Lesson 2
MUSP 3__ Music Performance 1

Foundation Course - Foreign Language 3
MUSA 363 Music Industry and Marketing 3

Semester Credit Hours 15

Spring Semester

MUSA 101 Concert Attendance 0
MUSA 310 Accompanying Techniques 2
MUSA 327 Music History and Literature II 3
MUSL 3__ Music Lesson 2
MUSP 3__ Music Performance 1
MUSA 365 Entrepreneurship for Creatives 3
MUSP 320 Junior Recital 1

Semester Credit Hours 18

Fourth Year

Fall Semester

MUSA 101 Concert Attendance 0
MUSA 302 Keyboard Literature I 3
MUSA 317 Applied Orchestration and Arranging 2
MUSL 4__ Music Lesson 2
MUSP 4__ Music Performance 1
Fine Arts Elective 3
MUSA 426 The Music of World Cultures 2

Semester Credit Hours 13

Spring Semester

MUSA 101 Concert Attendance 0
MUSA 304 Keyboard Literature II 3
MUSL 4__ Music Lesson 2
MUSP 4__ Music Performance 1
MUSA 311 Advanced Music Technology 1
MUSA 420 Senior Recital/Presentation 1

Essential Learning - Natural Science 3
KINA Activity 1

Semester Credit Hours 12

Total Semester Credit Hours 120

Advising Process and DegreeWorks

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<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
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</tr>
<tr>
<td>Humanities</td>
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<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
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<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
</tbody>
</table>
Select one Fine Arts course 3

Natural Sciences 2
Select one Natural Sciences course 3
Select one Natural Sciences course with a lab 4

Total Semester Credit Hours 31

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

Other Lower Division Requirements

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<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Essential Learning Capstone 1

| ESSL 290  | Maverick Milestone      | 3                     |
| ESSL 200  | Essential Speech        | 1                     |

Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

(24 semester hours, must pass each course with a “C” or better.)

<table>
<thead>
<tr>
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</thead>
<tbody>
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<td>Music Technology</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 114</td>
<td>Theory I-Introduction</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 115</td>
<td>Theory II-Diatomic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 116</td>
<td>Ear Training and Sightsinging I</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 117</td>
<td>Ear Training and Sightsinging II</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 214</td>
<td>Theory III - Chromatic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 215</td>
<td>Theory IV - Twentieth Century Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSL 1__</td>
<td>Music Lesson</td>
<td>2</td>
</tr>
<tr>
<td>MUSL 2__</td>
<td>Music Lesson</td>
<td>2</td>
</tr>
<tr>
<td>MUSP 1__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 1__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 2__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 24

Program Specific Degree Requirements

(59 semester hours, must pass each course with a “C” or better and maintain a 2.0 cumulative GPA or higher in coursework in this area.)

- MUSP and MUSL credits may only be used once on a program sheet. Student should consult their advisor when determining the section to use these courses.
- Students deficient in piano skills will be required to complete MUSA 130, MUSA 131, MUSA 230, and MUSA 231 in the first two years. Some Essential Learning credits will have to be completed in the junior year.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
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<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
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<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
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<tr>
<td>MUSA 101</td>
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<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
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</tr>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
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</tr>
<tr>
<td>MUSA 250</td>
<td>Beginning Conducting</td>
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</tr>
<tr>
<td>MUSA 258</td>
<td>Introduction to Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 268</td>
<td>Beginning Jazz Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 311</td>
<td>Advanced Music Technology</td>
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</tr>
<tr>
<td>MUSA 317</td>
<td>Applied Orchestration and Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 326</td>
<td>Music History and Literature I</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 327</td>
<td>Music History and Literature II</td>
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</tr>
<tr>
<td>MUSA 363</td>
<td>Music Industry and Marketing</td>
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</tr>
<tr>
<td>MUSA 365</td>
<td>Entrepreneurship for Creatives</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 426</td>
<td>The Music of World Cultures</td>
<td>2</td>
</tr>
<tr>
<td>MUSP 320</td>
<td>Junior Recital</td>
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<tr>
<td>MUSL 1__</td>
<td>Music Lesson</td>
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</tr>
<tr>
<td>MUSL 2__</td>
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<td>MUSL 3__</td>
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<td>MUSL 4__</td>
<td>Music Lesson</td>
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</tr>
<tr>
<td>MUSP 2__</td>
<td>Music Performance</td>
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<td>MUSP 3__</td>
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<tr>
<td>MUSP 420</td>
<td>Senior Recital/Presentation</td>
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</tr>
</tbody>
</table>

Foreign Language

One course in the foreign language 1 3

Vocal Performance

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>MUSA 318</td>
<td>Vocal Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 337</td>
<td>Singer’s Diction 1: English and German</td>
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</tr>
<tr>
<td>MUSA 410</td>
<td>Vocal Pedagogy</td>
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<tr>
<td>MUSA 437</td>
<td>Singer’s Diction 2: Italian and French</td>
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<td>MUSA 438</td>
<td>Singer’s Diction 3: Russian</td>
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<td>MUSP 365</td>
<td>Opera Workshop</td>
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<tr>
<td>MUSP 465</td>
<td>Opera Scenes</td>
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</tr>
<tr>
<td>THEA 153</td>
<td>Acting I: Beginning Acting</td>
<td>3</td>
</tr>
</tbody>
</table>

Select two credits of the following:

<p>| MUSA 350A | Advanced Conducting: Choral |
| MUSA 350B | Advanced Conducting: Instrumental |
| MUSP 350 | Concert Choir               |</p>
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 114</td>
<td>Theory I - Introduction</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 116</td>
<td>Ear Training and Sightsinging I</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 111</td>
<td>Music Technology</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 1__</td>
<td>Music Lesson</td>
<td>2</td>
</tr>
<tr>
<td>MUSP 1__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 258</td>
<td>Introduction to Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 2__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 3__</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 3__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 4__</td>
<td>Music Lesson</td>
<td>2</td>
</tr>
<tr>
<td>MUSP 4__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 214</td>
<td>Theory III - Chromatic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 268</td>
<td>Beginning Jazz Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 2__</td>
<td>Music Lesson</td>
<td>2</td>
</tr>
<tr>
<td>MUSP 2__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>THEA 153</td>
<td>Acting I: Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>KINA Activity</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 317</td>
<td>Applied Orchestration and Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 326</td>
<td>Music History and Literature I</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 337</td>
<td>Singer's Diction 1: English and German</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 3__</td>
<td>Music Lesson</td>
<td>2</td>
</tr>
<tr>
<td>MUSP 3__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>Foundation Course - Foreign Language</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MUSA 426</td>
<td>The Music of World Cultures</td>
<td>2</td>
</tr>
<tr>
<td>MUSL 4__</td>
<td>Music Lesson</td>
<td>4</td>
</tr>
<tr>
<td>MUSP 4__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 420</td>
<td>Senior Recital/Presentation</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 4__</td>
<td>Music Lesson</td>
<td>3</td>
</tr>
<tr>
<td>MUSP 4__</td>
<td>Music Performance</td>
<td>3</td>
</tr>
<tr>
<td>MUSP 4__</td>
<td>Senior Recital/Presentation</td>
<td>3</td>
</tr>
<tr>
<td>MUSL 5__</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 5__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 120

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic advisor.
department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmets requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Music with Elective Studies in Business (BM)**

Degree: Bachelor of Music  
Major: Music with Elective Studies in Business  
Program Code: 3281

**About This Major . . .**

The Bachelor of Music with Elective Studies in Business is designed for students who desire a career within the music industry. The comprehensive core curriculum in music includes courses in theory, history, literature, music technology, improvisation, and applied study on the major instrument or voice and ensemble performance. Also included are specialized courses in Music Industry and Marketing, Entrepreneurship and Advanced Music Technology. Required business courses include the areas of Marketing, Management, Economics, and the Legal Environment of Business. This degree will also result in completion of the requirements for a Certificate in Entrepreneurship.

Finally, an internship component provides the opportunity for students to gain real world experience in the music industry areas of their choice. Professional success in the musical arts requires a comprehensive understanding of the new business models at work in our digital world. Our program seeks to provide this up-to-date information to enhance success for the student at every level.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

Graduates of this major must be able to:

1. Develop and express music judgments through solo performances (Critical Thinking)
2. Create materials for effective marketing in the arts field (Communication Fluency)
3. Apply music industry concepts to an approved capstone, which may consist of a senior presentation and/or recital (Applied Learning)
4. Produce digital audio projects through multi-track recording, sequencing and editing using industry standard software (Applied Learning)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>Select one Humanities course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
Natural Sciences
Select one Natural Sciences course 3
Select one Natural Sciences course with a lab 4

History
Select one History course 3

Fine Arts
MUSA 266 History of Popular Music-GTAH1 3

Total Semester Credit Hours 31

1 Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours 6</td>
<td></td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses
(23 semester hours, must pass all courses with a “C” or better.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 111</td>
<td>Music Technology</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 114</td>
<td>Theory I - Introduction</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 115</td>
<td>Theory II - Diatonic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 116</td>
<td>Ear Training and Sightsinging I</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 117</td>
<td>Ear Training and Sightsinging II</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 214</td>
<td>Theory III - Chromatic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 215</td>
<td>Theory IV - Twentieth Century Form and Analysis</td>
<td>3</td>
</tr>
<tr>
<td>MUSL 1__</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 2__</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 1__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 1__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 2__</td>
<td>Music Performance</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours 23</td>
<td></td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements
(57 semester hours, must pass all courses with a “C” or better and maintain a 2.0 cumulative GPA or higher in coursework toward the major content area. While the course below indicates a total of 56-58 hours, student must plan accordingly to complete 57 hours in this area.)

1. Students deficient in piano skills will be required to complete MUSA 130 (2), MUSA 131 (2), MUSA 230 (2), MUSA 231 (2), in the first two years.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 101</td>
<td>Concert Attendance</td>
<td>0</td>
</tr>
<tr>
<td>MUSA 268</td>
<td>Beginning Jazz Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 311</td>
<td>Advanced Music Technology</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 317</td>
<td>Applied Orchestration and Arranging</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 326</td>
<td>Music History and Literature I</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 327</td>
<td>Music History and Literature II</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 363</td>
<td>Music Industry and Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 365</td>
<td>Entrepreneurship for Creatives</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 426</td>
<td>The Music of World Cultures</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 499</td>
<td>Internship</td>
<td>4</td>
</tr>
<tr>
<td>MUSL 2__</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 3__</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 4__</td>
<td>Music Lesson</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 420</td>
<td>Senior Recital/Presentation</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 337</td>
<td>Singer's Diction: English and German</td>
<td>1-2</td>
</tr>
<tr>
<td>or MUSA 368</td>
<td>Advanced Jazz Improvisation</td>
<td></td>
</tr>
</tbody>
</table>

Music Electives
Select three to four semester hours from any MUSA, MUSL, or MUSP course

Business Core

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENTR 300</td>
<td>Small Business and Entrepreneurship</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 340</td>
<td>Applied Financial Management for Emerging Businesses</td>
<td>3</td>
</tr>
<tr>
<td>ENTR 343</td>
<td>Exploring Entrepreneur Opportunities</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>BUGB 349</td>
<td>Legal Environment of Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Business or Entrepreneurship Elective
Select 3 semester hours from any business or entrepreneurship course

Total Semester Credit Hours 56-58
**General Electives**

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 3 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>3</td>
</tr>
</tbody>
</table>

While the total semester hours below reads 119-120, students must complete a minimum of 120 hours for this degree. This variation is due to the option to complete either MUSA 337 or MUSA 368, which have different credit hours. Students should work with their advisor to make sure the correct number of Music Elective hours are completed depending on the course selected to complete this requirement.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and
should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Jazz Studies (Minor)**

Minor: Jazz Studies  
Program Code: M213

**About This Minor. . .**

The Jazz Studies Music Minor provides the opportunity for students to obtain a comprehensive set of fundamental skills in the jazz area, including large-ensemble performance, small-group performance, improvisation, composition and arranging, history and literature, and private instruction. Music majors who add this minor will broaden their skill set and marketability beyond the classical music area, and non-music majors may add this minor as a secondary area of study. Entrance to the Jazz Studies Music Minor requires an audition and prior jazz experience.

**Institutional Minor Requirements**

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Minor Requirements**

(20 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 267</td>
<td>Jazz History and Literature</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 268</td>
<td>Beginning Jazz Improvisation</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 368</td>
<td>Advanced Jazz Improvisation</td>
<td>2</td>
</tr>
<tr>
<td>MUSL 139</td>
<td>Jazz</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 139</td>
<td>Jazz</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 239</td>
<td>Jazz</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 339</td>
<td>Jazz</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 162</td>
<td>Combo</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 262</td>
<td>Combo</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 362</td>
<td>Combo</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 462</td>
<td>Combo</td>
<td>1</td>
</tr>
</tbody>
</table>

One semester of jazz lessons must be taken on jazz piano, and a second semester must be taken on jazz composition/arranging or jazz piano. All other semesters are taken on the student’s primary jazz instrument or voice.

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head.
advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Music - Instrumental (Minor)

Minor: Music - Instrumental
Program Code: M210

About This Minor. . .

The Minor in Instrumental Music offers students in other majors the opportunity to stay involved with music in college, gaining experience and skills in music lessons, ensembles, and academics. The minor includes three years of ensembles and lessons on an applied instrument; academic courses in music theory, appreciation, and literature; as well as an upper division elective.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(23 semester hours)

- Basic piano proficiency equivalent to Class Piano II is expected. Music minors lacking this ability will be required to take Class Piano I and Class Piano II to correct the deficiency.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 113</td>
<td>Fundamentals of Theory or MUSA 114</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 220</td>
<td>Music Appreciation-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSA 302</td>
<td>Keyboard Literature I</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 303</td>
<td>Symphonic Literature</td>
<td></td>
</tr>
<tr>
<td>MUSA 304</td>
<td>Keyboard Literature II</td>
<td></td>
</tr>
<tr>
<td>Select 2 semester hours from Upper Division MUSA, MUSL, or MUSP courses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSx ³</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MUSx ³</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Six semester hours of Applied Instrumental Music Lessons; at least two semester hours must be at the 300 level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSL</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MUSL</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MUSL</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MUSL 3</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MUSL 3</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Six semester hours of Instrumental Performance Ensembles; at least two semester hours must be at the 300 level</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MUSP</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MUSP</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MUSP</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MUSP 3</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>MUSP 3</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>23</td>
<td></td>
</tr>
</tbody>
</table>

³ Must be upper division.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.
If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

**Music - Vocal (Minor)**

Minor: Music - Vocal  
Program Code: M211

**About This Minor. . .**

The Vocal Music Minor provides training and performance opportunities for students seeking music development in voice as their secondary area of study. Fundamental studies in piano, music reading and theory, two years of voice lessons, three years of performing in choral ensembles, studies in diction and conducting, and performance training in opera scenes comprise this minor. Audition for acceptance into the Vocal Minor is required.

**Institutional Minor Requirements**

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Minor Requirements**

Students must choose one of two tracks: Regular Vocal Music Concentration (Track A) or Music Theatre Concentration (Track B).

- 25 semester hours for the Minor in Music – Vocal, Regular Vocal Music Concentration (Track A).
- 20-22 semester hours for the Minor in Music – Vocal, Music Theatre Concentration (Track B).

**Track A: Vocal, Regular Vocal Music Concentration**  
(25 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 113</td>
<td>Fundamentals of Theory</td>
<td>3</td>
</tr>
<tr>
<td>or MUSA 114</td>
<td>Theory I-Introduction</td>
<td></td>
</tr>
<tr>
<td>MUSA 116</td>
<td>Ear Training and Sightsinging I</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 130</td>
<td>Class Piano I</td>
<td>2</td>
</tr>
<tr>
<td>MUSL 137</td>
<td>Voice ¹</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 137</td>
<td>Voice ¹</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 237</td>
<td>Voice ²</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 237</td>
<td>Voice ²</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 250</td>
<td>Beginning Conducting</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 337</td>
<td>Singer’s Diction 1: English and German</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 437</td>
<td>Singer’s Diction 2: Italian and French</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 365</td>
<td>Opera Workshop</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one of the following:

- MUSA 318 Vocal Literature  
- MUSA 319 Choral Literature  
- MUSA 410 Vocal Pedagogy

**Track B: Vocal, Music Theatre Concentration**  
(21-22 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSA 115</td>
<td>Theory II-Diatonic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 117</td>
<td>Ear Training and Sightsinging II</td>
<td>2</td>
</tr>
<tr>
<td>MUSA 230</td>
<td>Class Piano III</td>
<td>2</td>
</tr>
<tr>
<td>MUSL 337</td>
<td>Voice ¹</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 337</td>
<td>Voice ¹</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 437</td>
<td>Voice ²</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 437</td>
<td>Voice ²</td>
<td>1</td>
</tr>
<tr>
<td>MUSA 410</td>
<td>Vocal Pedagogy</td>
<td>3</td>
</tr>
<tr>
<td>MUSP 420</td>
<td>Senior Recital/Presentation</td>
<td>1</td>
</tr>
</tbody>
</table>

Select one of the following:

- MUSA 318 Vocal Literature  
- MUSA 319 Choral Literature  
- MUSA 337 Singer’s Diction 1: English and German
Complete 4 semester hours of MUSP Vocal Ensemble, 2 semester hours must be at 400 level:

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUSP ___</td>
<td>1</td>
</tr>
<tr>
<td>MUSP ___</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 4__</td>
<td>1</td>
</tr>
<tr>
<td>MUSP 4__</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 20-22

1. MUSL 337 taken twice, 1 semester hour per semester = 2 semester hours
2. MUSL 437 taken twice, 1 semester hour per semester = 2 semester hours

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
NURSE AIDE

Program Description
The nurse aide certificate provides the student with entry-level skills required for employment as an aide in a long-term care facility, an acute care facility, or a home health care agency. Special needs of the geriatric population are emphasized. Students who successfully complete this certificate qualify to take the State Certification Examination. Instruction includes basic nursing assistant procedures, skills, restorative services, general household activities, patient care, safety and emergency care. Students gain an understanding of the responsibilities involved in working with patients of all ages, in both wellness and illness, and issues of mental health, patient rights and patient/family interactions. A minimum of 107 hours of training is required.

Students admitted to the Nurse Aide program must undergo a background check and maintain current CPR certification and professional liability insurance.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Certificates
- Nurse Aide (Technical Certificate) (p. 585)

Nurse Aide (Technical Certificate)
Degree: Technical Certificate
Program of Study: Nurse Aide
Program Code: 1602

About This Major...
This certificate is designed to provide the student with entry-level skills required for employment as a nurse’s aide in a long-term care facility, an acute care facility or a home health care agency. Special needs of the geriatric population are emphasized. Students who successfully complete this certificate qualify to take the State Certification Examination. Instruction includes basic nursing assistant procedures, skills, restorative services, general household activities, patient care, safety, and emergency care. Students gain an understanding of the responsibilities involved in working with patients of all ages, in both wellness and illness, issues of mental health, patient rights, and patient/family interactions. A minimum of 107 hours of training is required.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Examine the professional certified nursing assistant’s potential strength in various roles within the health care delivery system (Specialized Knowledge)
2. Demonstrate skills outlined by the State board of Nursing for nursing assistants in regards to the five terminal competencies (Applied Learning)
3. Discuss the characteristics that health care workers demonstrate that promote professionalism and explain the importance of each characteristic (Specialized Knowledge)
4. Describe the ethical standards that govern the nursing profession in particular and the health care profession in general. (Specialized Knowledge)

Institutional Certificate Requirements
The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(5 semester hours, must maintain a 2.00 cumulative GPA or higher in coursework.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURA 101</td>
<td>Nurse Aide Healthcare Skills</td>
<td>4</td>
</tr>
<tr>
<td>NURA 170</td>
<td>Nurse Aide Clinical Experience</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>5</td>
</tr>
</tbody>
</table>

May be taken in Fall or Spring or Summer
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURA 101</td>
<td>Nurse Aide Healthcare Skills</td>
<td>4</td>
</tr>
<tr>
<td>NURA 170</td>
<td>Nurse Aide Clinical Experience</td>
<td>1</td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
Program Description

The practical nurse (PN) program is designed for students interested in an entry-level position in the nursing career ladder program. The PN program is accredited by the Accreditation Commission for Education in Nursing (ACEN) and has full approval by the Colorado State Board of Nursing. Completion of the PN certificate allows students to progress for advanced placement in the Bachelor of Science in Nursing degree. The PN program prepares the student to be a direct care giver in hospitals, long-term facilities and ambulatory care-clinic settings. This program has selective admission requirements. Admission to the University does not guarantee admission to the program; a separate admission application to the program is required.

The LPN–BSN program for licensed practical nurses who are seeking to obtain an RN degree opens up greater employment opportunities, increased compensation and more job security within the nursing profession. The LPN–BSN program is accredited by the Commission on Collegiate Nursing Education (CCNE) and has full approval by the Colorado State Board of Nursing. The LPN–BSN program offers a balance between general college study and nursing education and prepares students to be direct caregivers in a variety of health care settings. This program has selective admission requirements. Admission to the University does not guarantee admission to the program; a separate admission application to the program is required. The LPN-BSN program begins in the spring each year and is completed in three semesters.

The RN–BSN nursing program enrolls Registered Nurses with current RN licenses from associate degree and diploma programs into the baccalaureate BSN program with advanced standing. The Registered Nurse student will be considered in terms of the Colorado Nursing Articulation Model. The RN may complete the professional component of the program by attending college full time or part time online. The RN to BSN program offers an accelerated model of instruction. Courses will be offered in a 7-week online format. There will be five start dates for the 7-week format and students may take one or two classes per session. The RN-BSN program is accredited by the Commission on Collegiate Nursing Education (CCNE). This program is designed for associate and diploma RN’s. Admission to the University does not guarantee admission to the program.

The Bachelor of Science in Nursing (BSN) is designed for high school graduates and students without prior nursing certificates or degrees. The four-year program provides educational experiences which prepare a professional nurse generalist to practice in a variety of health care settings. It is accredited by the Commission on Collegiate Nursing Education and approved by the Colorado State Board of Nursing. The program integrates nursing theory, practice and science with a broad liberal arts education. It has been developed to prepare highly competent professionals with the education necessary to meet the increasing needs for quality health care in society and provides students with the foundation for graduate study in nursing. Admission to the University does not guarantee admission to the program; a separate admission application to the program is required.

The Master of Science in Nursing (MSN) program is designed for students already possessing a baccalaureate degree in nursing, a Registered Nurse License, and adds the first graduate step on the nursing career ladder. The MSN degree will provide graduates with a foundation for practice as a leader and educator in health care systems or academic settings. The MSN program is online, providing flexibility for students to remain in their current work positions and home communities. This format provides optional opportunities for personal interaction with faculty and peers in focused intensive sessions at selected points during each semester. MSN graduates will be prepared to advance to higher levels of nursing education including Doctor of Nursing Practice (DNP) or Doctor of Philosophy in Nursing (PhD) programs. Admission to the University does not guarantee admission to the program. The MSN graduate nursing program is accredited by the Commission of Collegiate Nursing Education (CCNE).

The Doctor of Nursing Practice (DNP) degree is designed for those nurses who are interested in assuming an advance practice nursing role as a Family Nurse Practitioner (FNP). DNP graduates are prepared as clinical experts in the delivery of primary care, with a focus on critical thinking, leadership, and policy skills needed to advocate and create changes in healthcare practice at all levels. The program is online, providing flexibility for students to remain in their current work positions and home communities. Opportunities for personal interaction are included with faculty and peers in focused intensive sessions at selected points during each semester. Admission to the University does not guarantee admission to the program. The DNP graduate nursing program is accredited by the Commission of Collegiate Nursing Education (CCNE).

Special Requirements

Admission to Colorado Mesa University does not guarantee admission into the nursing program. Please contact the Health Sciences Department for additional information.

Progression requirements: All nursing courses must be completed in sequence. All required 200 level courses must be completed before 300 level nursing courses may be taken. All required 300 level courses must be completed before 400 level nursing courses may be taken. Students must complete all 200 level nursing courses or be an (RN) advanced placement student to enroll in the nursing elective courses.

Students transferring in credit for human anatomy and physiology taken at out-of-state accredited colleges/universities must provide evidence that these courses had separate laboratory components before the course can be accepted to fulfill program requirements.

Any RN or LPN who desires to enroll in a nursing course for personal enrichment only must secure permission from the course instructor.

The MSN is the fourth rung of the nursing career ladder at Colorado Mesa University. Admission requires a Bachelor of Nursing degree from a nationally accredited institution. Prior learning experiences will be evaluated on an individual basis.

The DNP program is the final step on the nursing career ladder at Colorado Mesa University. MSN/Advanced Practice prepared registered nurses must submit a separate application for the DNP program. Prior learning experiences will be evaluated on an individual basis.

High school courses in biology, chemistry and algebra are recommended. All non-nursing college courses must be completed before a student can be admitted to the nursing programs. An admission committee selects students from applicants who best meet requirements. All admission materials must be on file in the Department of Health Sciences office prior to deadlines established for each program:

- LPN Program:
  - March 1 for fall entrance
• LPN–BSN Program:
  • October 1 for spring entrance
• BSN Program:
  • September 15 for spring entrance, or
  • February 15 for fall entrance
• RN-BSN:
  • Five start dates, please see dates online
• MSN Program:
  • November 1 for spring entrance,
  • April 1 for summer/fall entrance
• DNP Program:
  • November 1 for spring entrance,
  • April 1 for summer/fall entrance

Students admitted to nursing programs must undergo a background check and drug screening, and maintain current CPR certification and professional liability insurance.

Undergraduate students must have a 2.0 (“C”) on a 4.0 scale or higher grade for all courses required for completion of the undergraduate nursing programs (PN, AAS, BSN, RN-BSN). This policy applies regardless of when the course was taken.

Graduate students must have a 3.0 (“B”) on a 4.0 scale or higher grade for all courses required for completion of the graduate nursing programs (MSN, DNP). This policy applies regardless of when the courses were taken. A “C” grade or lower in any required course will not count toward graduation requirements. See Graduate Programs section of this catalog for complete degree requirements.

Contact Information
Department of Health Sciences
Health Sciences 101
970.248.1398

Associates
• Nursing (AAS) (p. 588)

Bachelors/Minors
• LPN to BSN, Nursing (BSN) (p. 597)
• Nursing (BSN) (p. 600)
• RN to BSN, Nursing (BSN) (p. 603)

Certificates
• Practical Nursing (Technical Certificate) (p. 605)

Graduate
• Advanced Nursing Practice, Nursing (MSN) (p. 592)
• Doctor of Nursing Practice - Family Nurse Practitioner (DNP-FNP) (p. 590)
• Nursing Education, Nursing (MSN) (p. 594)
• Nursing Leadership and Administration, Nursing (MSN) (p. 596)

Nursing (AAS)
Degree: Associate of Applied Science
Major: Nursing

Program Code: 1615

About This Major...
This program, which is offered on the Montrose campus, allows the student to achieve an Associate of Applied Science in Nursing degree, opening up greater employment opportunities, increased compensation, and more job security. The Associate of Applied Science in Nursing program prepares the student to achieve a balance between general college and nursing education. The Associate of Applied Science in Nursing (RN) is prepared to be a direct caregiver in hospitals, long-term facilities, and ambulatory care-clinical settings.

The potential student must demonstrate college-level proficiency in reading, writing and mathematics in order to be admitted to this program. This program has selective admission requirements and requirements may change from year to year. It is the student's responsibility to obtain the current admission requirements.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

Important information for this program:
• All essential learning requirements and prerequisite courses must be in progress or completed before applying to the program. Additional admission requirements also apply. Please visit the Department of Health Sciences' website for a complete list of admission requirements and program information.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student-learning outcomes, graduates of this major will be able to:

1. Cultural Awareness - Exhibit professional nursing care to diverse patients across the life span.
2. Information Management - Utilize health information systems to provide safe patient care throughout the health care environment.
3. Communication - Incorporate therapeutic communication into all interactions.
4. Logical Reasoning - Incorporate evidence based practice in the application of care to provide safe quality outcomes.
5. Leadership in Health Care - Utilize principles of leadership and management skills in caring for patients throughout the lifespan.
6. Professionalism/Caring - Display accountability utilizing ethical reasoning. Incorporate compassionate and empathetic behaviors while providing care.

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 60 semester hours minimum.
• Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this degree:
• 76 semester hours required for the AAS in Nursing.
• Must have a “C” or better in all courses.

Essential Learning Requirements
(15 Semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
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</table>

Total Semester Credit Hours
15

Other Lower Division Requirements
(2 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
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</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
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</tr>
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</table>

Total Semester Credit Hours
2

Foundation Courses
(12 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209 &amp; 209L</td>
<td>Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 210 &amp; 210L</td>
<td>Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
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Total Semester Credit Hours
12

Program Specific Degree Requirements
(47 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
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<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 246</td>
<td>Pharmacological Concepts I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 247</td>
<td>Fundamentals of Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 247L</td>
<td>Fundamentals of Nursing Laboratory</td>
<td>2</td>
</tr>
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<td>NURS 248</td>
<td>Adult Concepts of Health I</td>
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<td>NURS 248L</td>
<td>Adult Concepts of Health I Laboratory</td>
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</tr>
<tr>
<td>NURS 249</td>
<td>Pharmacological Concepts II</td>
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</tr>
<tr>
<td>NURS 250</td>
<td>Health Assessment for Nurses</td>
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<td>NURS 250L</td>
<td>Health Assessment for Nurses Laboratory</td>
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<td>NURS 251</td>
<td>Adult Concepts of Health II</td>
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<td>NURS 251L</td>
<td>Adult Concepts of Health II Laboratory</td>
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<tr>
<td>NURS 252</td>
<td>Mental Health Concepts in Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 252L</td>
<td>Mental Health Concepts in Nursing Laboratory</td>
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</tr>
<tr>
<td>NURS 253</td>
<td>Family Nursing Obstetrics and Pediatrics</td>
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<td>NURS 253L</td>
<td>Family Nursing Obstetrics and Pediatrics Laboratory</td>
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<tr>
<td>NURS 254</td>
<td>Leadership/Capstone</td>
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<tr>
<td>NURS 254L</td>
<td>Leadership/Capstone Laboratory</td>
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Total Semester Credit Hours
47

First Year

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209 &amp; 209L</td>
<td>Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
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</tr>
<tr>
<td>KINA Activity Course</td>
<td></td>
<td>1</td>
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Total Semester Credit Hours
12

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tr>
<td>ENGL 112</td>
<td>English Composition GTCO2</td>
<td>3</td>
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<tr>
<td>BIOL 210 &amp; 210L</td>
<td>Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours
13
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.

• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Doctor of Nursing Practice - Family Nurse Practitioner (DNP-FNP)

Degree: Doctor of Nursing Practice
Program of Study: Family Nurse Practitioner (FNP)
Program Code: 9611

About This Program . . .

The Doctor of Nursing Practice (DNP) is designed for those nurses who are interested in assuming an advance practice nursing role as a Family Nurse Practitioner (FNP). DNP graduates are prepared as clinical experts in the delivery of primary care, with a focus on critical thinking, leadership, and political policy skills needed to advocate and create changes in healthcare practice at all levels. The program includes 1000 hours of immersion in clinical practice to build and assimilate knowledge for advanced practice at a high level of complexity. These experiences provide the context within which the final DNP scholarly project is completed.

The DNP degree is built upon the generalist foundation acquired through a baccalaureate in nursing; advanced placement is also available for students with a prior master’s degree in nursing. Graduates prepared for an advance practice role as a Family Nurse Practitioner will demonstrate practice expertise, specialized knowledge, and expanded responsibility and accountability in the care and management of individuals and families.

The program is a hybrid format, providing flexibility for students to remain in their current work positions and home communities in western Colorado using online course delivery methods. Opportunities for personal interaction are included with faculty and peers in focused intensive sessions at selected points during each semester. Clinical coursework and immersion experiences will be arranged in primary care settings across the region. Students will complete most clinical requirements in their home community, but may need to travel for specialized clinical experiences including rural health care settings.

Important information about this program:

• Admission to the program follows the general admissions policies & procedures for graduate programs outlined in the university catalog.
• A bachelor’s degree in nursing from a regionally accredited college or university is required, prior to beginning the program. Applicants must have maintained a GPA of 3.0 or better in baccalaureate nursing coursework.
• Applicants must hold a current, unrestricted license to practice as a registered nurse in their State of Practice.

All CMU doctoral-level graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-
wide student learning outcomes, a Doctor of Nursing Practice – Family Nurse Practitioner graduate will be able to:

1. Advance science, education, leadership, practice, or policy within a chosen discipline by completing an original research project approved by a faculty panel. (Specialized Knowledge/Applied Learning)
2. Employ discipline-specific logical, mathematical, or statistical methods, or other analytical processes to address a topic or issue. (Quantitative Fluency)
3. Create oral and written arguments or explanations, well-grounded in discipline-specific theories and methods, for specified audiences. (Communication Fluency)
4. Formulate and evaluate hypotheses as related to research problems, issues, concepts, and various perspectives. (Critical Thinking)
5. Synthesize, evaluate, or refine the information base of various scholarly sources. (Information Literacy)
6. Choose ethical and legal courses of action in research and professional practice. (Ethical Reasoning)

### Institutional Graduate Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.
- Master’s degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Specific to this degree:

- 79 semester hours are required for the Doctor of Nursing Practice degree.

### Program Specific Requirements

(79 semester hours, no class grade lower than a “B” will be counted toward the degree. It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.)

## Department-Specific Requirements

### Required Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 500</td>
<td>Theoretical Foundations</td>
<td>3</td>
</tr>
<tr>
<td>NURS 501</td>
<td>Nursing Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>NURS 502</td>
<td>Health Information Systems</td>
<td>3</td>
</tr>
<tr>
<td>NURS 503</td>
<td>Organizational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>NURS 504</td>
<td>Health Policy</td>
<td>3</td>
</tr>
<tr>
<td>NURS 505</td>
<td>Quality Assessment and Improvement in Health Care Settings</td>
<td>3</td>
</tr>
<tr>
<td>NURS 625</td>
<td>Statistics for Health Sciences</td>
<td>3</td>
</tr>
<tr>
<td>NURS 626</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>NURS 700</td>
<td>Evidence-Based Practice</td>
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### Advanced Nursing Practice Cognate

<table>
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<tr>
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<th>Title</th>
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<tbody>
<tr>
<td>NURS 525</td>
<td>Pathophysiologic Concepts</td>
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<tr>
<td>NURS 526</td>
<td>Pharmacology for Advanced Nurse Practitioners</td>
<td>3</td>
</tr>
<tr>
<td>NURS 527</td>
<td>Advanced Health Assessment</td>
<td>3</td>
</tr>
<tr>
<td>NURS 530</td>
<td>Chronic Illness Management</td>
<td>3</td>
</tr>
<tr>
<td>NURS 535</td>
<td>Health Promotion and Disease Prevention</td>
<td>3</td>
</tr>
<tr>
<td>NURS 600</td>
<td>Advanced Practice Nursing Issues</td>
<td>2</td>
</tr>
<tr>
<td>NURS 601</td>
<td>Primary Care of the Child/Adolescent</td>
<td>3</td>
</tr>
<tr>
<td>NURS 602</td>
<td>Primary Care of the Adult</td>
<td>3</td>
</tr>
<tr>
<td>NURS 603</td>
<td>Primary Care of the Older Person</td>
<td>3</td>
</tr>
<tr>
<td>NURS 604</td>
<td>Primary Care of Rural Populations</td>
<td>1</td>
</tr>
<tr>
<td>NURS 610</td>
<td>Clinical Practicum: Child/Adolescent</td>
<td>3</td>
</tr>
<tr>
<td>NURS 620</td>
<td>Clinical Practicum: Adult</td>
<td>3</td>
</tr>
<tr>
<td>NURS 630</td>
<td>Clinical Practicum: Older Person</td>
<td>3</td>
</tr>
<tr>
<td>NURS 640</td>
<td>Clinical Practicum: Rural Health Care</td>
<td>2</td>
</tr>
<tr>
<td>NURS 650</td>
<td>Family Nurse Practitioner Preceptorship I</td>
<td>3</td>
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<tr>
<td>NURS 652</td>
<td>Family Nurse Practitioner Preceptorship II</td>
<td>3</td>
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<tr>
<td>NURS 660</td>
<td>Transition to the Doctor of Nursing Practice</td>
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### DNP Project

<table>
<thead>
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<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>NURS 750</td>
<td>Doctor of Nursing Practice Project: Evidence-Based Practice I</td>
<td>3</td>
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<tr>
<td>NURS 760</td>
<td>Doctor of Nursing Practice Project: Evidence-Based Practice II</td>
<td>3</td>
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</table>

### Other Requirements

**Completion of Oral Comprehensive Exam**

**Total Semester Credit Hours**

79

### Course Schedule

#### First Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 500</td>
<td>Theoretical Foundations</td>
<td>3</td>
</tr>
<tr>
<td>NURS 502</td>
<td>Health Information Systems</td>
<td>3</td>
</tr>
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**Spring Semester**

<table>
<thead>
<tr>
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<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>NURS 503</td>
<td>Organizational Leadership</td>
<td>3</td>
</tr>
<tr>
<td>NURS 504</td>
<td>Health Policy</td>
<td>3</td>
</tr>
<tr>
<td>NURS 505</td>
<td>Quality Assessment and Improvement in Health Care Settings</td>
<td>3</td>
</tr>
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<td>Course Name</td>
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<tr>
<td>------------------</td>
<td>-------------------</td>
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</tr>
<tr>
<td>Summer Semester</td>
<td>NURS 501</td>
<td>Nursing Research Methods</td>
</tr>
<tr>
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<td><strong>Semester Credit Hours</strong></td>
</tr>
<tr>
<td>Second Year</td>
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</tr>
<tr>
<td>Fall Semester</td>
<td>NURS 525</td>
<td>Pathophysiologic Concepts</td>
</tr>
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<td></td>
<td>NURS 535</td>
<td>Health Promotion and Disease Prevention</td>
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<td><strong>Semester Credit Hours</strong></td>
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<tr>
<td>Spring Semester</td>
<td>NURS 526</td>
<td>Pharmacology for Advanced Nurse Practitioners</td>
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<tr>
<td></td>
<td>NURS 530</td>
<td>Chronic Illness Management</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
</tr>
<tr>
<td>Summer Semester</td>
<td>NURS 527</td>
<td>Advanced Health Assessment</td>
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<td>Third Year</td>
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<tr>
<td>Fall Semester</td>
<td>NURS 600</td>
<td>Advanced Practice Nursing Issues</td>
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<tr>
<td></td>
<td>NURS 602</td>
<td>Primary Care of the Adult</td>
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<td></td>
<td>NURS 620</td>
<td>Clinical Practicum: Adult</td>
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<td>Primary Care of the Child/Adolescent</td>
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<td>NURS 610</td>
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<td>NURS 625</td>
<td>Statistics for Health Sciences</td>
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<td>Fourth Year</td>
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<td>Fall Semester</td>
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<td>Epidemiology</td>
</tr>
<tr>
<td></td>
<td>NURS 604</td>
<td>Primary Care of Rural Populations</td>
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<td>NURS 640</td>
<td>Clinical Practicum: Rural Health Care</td>
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<tr>
<td></td>
<td>NURS 700</td>
<td>Evidence-Based Practice</td>
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<tr>
<td></td>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
</tr>
<tr>
<td>Spring Semester</td>
<td>NURS 603</td>
<td>Primary Care of the Older Person</td>
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<tr>
<td></td>
<td>NURS 630</td>
<td>Clinical Practicum: Older Person</td>
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<td>NURS 660</td>
<td>Transition to the Doctor of Nursing Practice</td>
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<tr>
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<td><strong>Semester Credit Hours</strong></td>
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<tr>
<td>Fifth Year</td>
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<td>Fall Semester</td>
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<td>Family Nurse Practitioner Preceptorship I</td>
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<td></td>
<td>NURS 750</td>
<td>Doctor of Nursing Practice Project: Evidence-Based Practice I</td>
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<tr>
<td></td>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
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<tr>
<td>Spring Semester</td>
<td>NURS 652</td>
<td>Family Nurse Practitioner Preceptorship II</td>
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<tr>
<td></td>
<td>NURS 760</td>
<td>Doctor of Nursing Practice Project: Evidence-Based Practice II</td>
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<td></td>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
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<tr>
<td></td>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

**Advanced Nursing Practice, Nursing (MSN)**

Degree: Master of Science in Nursing
Advanced Nursing Practice Cognate
Program Code: 8611

**About This Program . . .**

The Master of Science in Nursing degree provides graduates with a foundation for practice as a clinical leader in health care systems or academic settings. Graduates of master’s degree programs in nursing are prepared with additional knowledge and clinical expertise building on baccalaureate nursing practice. The MSN program at Colorado Mesa University is based on the “Essentials of Masters Education for Advanced Nursing Practice” identified by the American Association of Colleges of Nursing.

The MSN program is designed for students already possessing a baccalaureate degree in nursing and adds the first graduate step on the nursing career ladder at Colorado Mesa University. MSN graduates will be prepared to advance to higher levels of nursing education including Doctor of Nursing Practice (DNP) or Doctoral of Philosophy in Nursing (PhD) programs. The program is a hybrid format, providing flexibility for students to remain in their current work positions and home communities in western Colorado using online course delivery methods. Opportunities for personal interaction are included with faculty and peers in focused intensive sessions at selected points during each semester. Clinical immersion experiences will be arranged in health care settings across the region.

Important information for this program:
• Admission to the program follows the general admissions policies & procedures for graduate programs outlined in the university catalog.

• A bachelor's degree in nursing from a regionally accredited college or university is required, prior to beginning the program. Applicants must have maintained a GPA of 3.0 or better in baccalaureate nursing coursework.

• Applicants must hold a current, unrestricted license to practice as a registered nurse in their State of Practice.

All CMU master-level graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, a Master of Science in Nursing (Advanced Nursing Practice) graduate will be able to:

1. Contribute to scholarly advancement in the chosen field by completing projects individually and collaboratively. (Specialized Knowledge)

2. Employ discipline-specific logical, mathematical, statistical methods, or other analytical processes to address a topic or issue. (Quantitative Fluency)

3. Create oral and written arguments or explanations, well-grounded in discipline-specific theories and methods, for specified audiences. (Communication Fluency)

4. Formulate and evaluate hypotheses as related to research problems, issues, concepts, and various perspectives. (Critical Thinking)

5. Synthesize, evaluate, or refine the information base of various scholarly sources. (Information Literacy)

6. Articulate moral, ethical, legal, or professional challenges within the discipline. (Ethical Reasoning)

7. Contribute to scholarly advancement in the chosen field by completing projects individually and collaboratively. (Applied Learning)

**Institutional Graduate Degree Requirements**

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.
- Master's degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Specific to this program:**

- 36 semester hours are required for the Master of Science in Nursing, Advanced Nursing Practice Cognate degree.

**Program Specific Requirements**

(36 semester hours, must earn a grade of “B” or better in each course. It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.)

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
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<td>Theoretical Foundations</td>
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<td>NURS 501</td>
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<td>NURS 504</td>
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<tr>
<td>NURS 505</td>
<td>Quality Assessment and Improvement in Health Care Settings</td>
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**Advanced Nursing Practice Cognate**

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<td>Pharmacology for Advanced Nurse Practitioners</td>
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<td>NURS 535</td>
<td>Health Promotion and Disease Prevention</td>
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**Capstone**

NURS 575 | Capstone Project | 3 |

**Other Requirements**

Completion of Oral Comprehensive Exam

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<td>NURS 503</td>
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<td>NURS 530</td>
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</table>

Total Semester Credit Hours 36
### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

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### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

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- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

### Nursing Education, Nursing (MSN)

**Degree:** Master of Science in Nursing  
Nursing Education Cognate  
Program Code: 8612

### About This Program . . .

The Master of Science in Nursing degree provides graduates with a foundation for practice as an entry-level educator in health care systems or academic settings. Graduates of master’s degree programs in nursing are prepared with additional knowledge and clinical expertise building on baccalaureate nursing practice. The MSN program at Colorado Mesa University is based on the “Essentials of Masters Education for Advanced Nursing Practice” identified by the American Association of Colleges of Nursing.

The MSN program is designed for students already possessing a baccalaureate degree in nursing and adds the first graduate step on the nursing career ladder at Colorado Mesa University. MSN graduates will be prepared to advance to higher levels of nursing education including Doctor of Nursing Practice (DNP) or Doctoral of Philosophy in Nursing (PhD) programs. The program is a hybrid format, providing flexibility for students to remain in their current work positions and home communities in western Colorado using online course delivery methods. Opportunities for personal interaction are included with faculty and peers in focused intensive sessions at selected points during each semester. Clinical immersion experiences will be arranged in health care settings across the region.

Important information for this program:

- Admission to the program follows the general admissions policies & procedures for graduate programs outlined in the university catalog.
- A bachelor’s degree in nursing from a regionally accredited college or university is required, prior to beginning the program. Applicants must have maintained a GPA of 3.0 or better in baccalaureate nursing coursework.
- Applicants must hold a current, unrestricted license to practice as a registered nurse in their State of Practice.

All CMU master-level graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, a Master of Science in Nursing (Nursing Education) graduate will be able to:

1. Contribute to scholarly advancement in the chosen field by completing projects individually and collaboratively. (Specialized Knowledge)
2. Employ discipline-specific logical, mathematical, statistical methods, or other analytical processes to address a topic or issue. (Quantitative Fluency)
3. Create oral and written arguments or explanations, well-grounded in discipline-specific theories and methods, for specified audiences. (Communication Fluency)
4. Formulate and evaluate hypotheses as related to research problems, issues, concepts, and various perspectives. (Critical Thinking)
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7. Contribute to scholarly advancement in the chosen field by completing projects individually and collaboratively. (Applied Learning)
Institutional Graduate Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.
- Master's degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours.
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a "B" toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:

- 36 semester hours are required for the Master of Science in Nursing, Nursing Education Cognate degree.

Program Specific Requirements

(36 semester hours, must earn a grade of "B" or better in each course. It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.)

<table>
<thead>
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<th>Code</th>
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<td>NURS 500</td>
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<td>NURS 504</td>
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<td></td>
<td><strong>Advanced Nursing Practice Cognate</strong></td>
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<tr>
<td>NURS 525</td>
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<td>Pharmacology for Advanced Nurse Practitioners</td>
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<td>NURS 527</td>
<td>Advanced Health Assessment</td>
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<td>NURS 540</td>
<td>Teaching Strategies for the Nurse Educator</td>
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<td>NURS 545</td>
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<td>NURS 560</td>
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<td>NURS 575</td>
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<td></td>
<td><strong>Other Requirements</strong></td>
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Completion of Oral Comprehensive Exam

<table>
<thead>
<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td></td>
<td><strong>First Year</strong></td>
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<tr>
<td>Fall Semester</td>
<td>NURS 501</td>
<td>Nursing Research Methods</td>
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<tr>
<td>Spring Semester</td>
<td>NURS 500</td>
<td>Theoretical Foundations</td>
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</table>
|          | NURS 503 | Organizational Leadership                   | 3                     | 6
| Summer Semester | NURS 526 | Pharmacology for Advanced Nurse Practitioners | 3                     |
|          | NURS 545 | Curriculum Design/Evaluation                | 3                     | 6
| Third Year | Fall Semester | NURS 575 | Capstone Project                            | 3                     |
|          | Total Semester Credit Hours                  | 36                    |

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

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**Nursing Leadership and Administration, Nursing (MSN)**

**Degree:** Master of Science in Nursing
**Nursing Leadership and Administration Cognate**
**Program Code:** 8613

**About This Program . . .**

The Master of Science in Nursing degree provides graduates with a foundation for practice as a clinical leader in health care systems or academic settings. Graduates of master’s degree programs in nursing are prepared with additional knowledge and clinical expertise building on baccalaureate nursing practice. The MSN program at Colorado Mesa University is based on the "Essentials of Masters Education for Advanced Nursing Practice" identified by the American Association of Colleges of Nursing.

The MSN program is designed for students already possessing a baccalaureate degree in nursing and adds the first graduate step on the nursing career ladder at Colorado Mesa University. MSN graduates will be prepared to advance to higher levels of nursing education including Doctor of Nursing Practice (DNP) or Doctoral of Philosophy in Nursing (PhD) programs. The program is a hybrid format, providing flexibility for students to remain in their current work positions and home communities in western Colorado using online course delivery methods. Opportunities for personal interaction are included with faculty and peers in focused intensive sessions at selected points during each semester. Clinical immersion experiences will be arranged in health care settings across the region.

Important information for this program:

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2. Employ discipline-specific logical, mathematical, statistical methods, or other analytical processes to address a topic or issue. (Quantitative Fluency)
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• Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
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• See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Specific to this program:**

• 36 semester hours are required for the Master of Science in Nursing degree, Nursing Leadership and Administration Cognate.

**Program Specific Requirements**

(36 semester hours, must pass all courses with a grade of “B” or better. It is recommended that students work closely with a faculty advisor when selecting courses and scheduling classes prior to registration.)
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<tr>
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<td>Nursing Research Methods</td>
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<td>BUGB 500</td>
<td>Advanced Business Law and Ethics</td>
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<td>ECON 530</td>
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<td>NURS 575</td>
<td>Capstone Project</td>
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### Other Requirements

- Completion of Oral Comprehensive Exam

**Total Semester Credit Hours**

| 36 |

### First Year

**Fall Semester**

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**Spring Semester**

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**Summer Semester**

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**Second Year**

**Fall Semester**

<table>
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**Spring Semester**

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**Third Year**

**Fall Semester**

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**Spring Semester**

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<tr>
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**Total Semester Credit Hours**

| 36 |

### Advising Process and DegreeWorks

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Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

### LPN to BSN, Nursing (BSN)

Degree: Bachelor of Science in Nursing  
Major: Nursing - LPN-BSN Option  
Program Code: 3610

### About This Major . . .

The Bachelor of Science in Nursing (LPN-BSN option) is approved by the Colorado State Board of Nursing. This program is designed for Licensed Practical Nurses to achieve a bachelor of science in Nursing Degree, opening up greater employment opportunities, increased compensation, and more job security. The LPN-integrates nursing theory, practice and science with a liberal arts education. The potential student must demonstrate college-level proficiency in reading, writing and mathematics in order to be admitted to this program. This program has selective admission requirements and requirements may change from year to year. It is the student's responsibility to obtain the current admission requirements.
For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All Essential Learning requirements, other lower-division requirements, and foundation courses must be in progress or completed before applying to the program. Additional admission requirements also apply. Please visit the Department of Health Sciences’ website (https://www.coloradomesa.edu/health-sciences) for a complete list of admission requirements and program information.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Information Management: Utilize information systems in the healthcare system.
2. Critical Thinking: Utilize critical thinking skills in the application of the nursing process to provide safe quality care by incorporating evidence-based practice.
3. Leadership: Incorporate knowledge of delegation and leadership management skills.
4. Communication: Demonstrate effective communication utilizing technology, written documentation, and verbal expression.
6. Quality Improvement: Utilize data to ensure quality improvement and support of evidence-based practice.
7. Caring: Incorporate empathetic, compassionate, and caring interventions and behaviors while providing care.
8. Diversity: Demonstrate sensitive professional nursing care to culturally diverse patients across the lifespan.

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.

- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Specific to this degree:**

- 121 semester hours are required for the BSN, Nursing - LPN to BSN.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>Select one History course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Humanities course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Fine Arts course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BIOL 101/BIOL 101L or BIOL 250/BIOL 250L</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>
Select one Activity course

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

(15-16 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 210L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3-4</td>
</tr>
<tr>
<td>or STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 15-16

Program Specific Degree Requirements

(68 semester hours, must pass all courses with a grade of "C" or higher and maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 318</td>
<td>Health Assessment and Promotion</td>
<td>3</td>
</tr>
<tr>
<td>NURS 318L</td>
<td>Health Assessment and Promotion Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 329</td>
<td>Advanced Adult Health I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 329L</td>
<td>Advanced Adult Health I Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>NURS 333</td>
<td>Basic Concepts of Pharmacology II</td>
<td>2</td>
</tr>
<tr>
<td>NURS 400</td>
<td>Nursing Research</td>
<td>3</td>
</tr>
<tr>
<td>NURS 421</td>
<td>Population Health</td>
<td>4</td>
</tr>
<tr>
<td>NURS 421L</td>
<td>Population Health Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>NURS 427</td>
<td>Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>NURS 427L</td>
<td>Mental Health Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 429</td>
<td>Adult Health II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 429L</td>
<td>Adult Health II Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>NURS 431</td>
<td>High Risk Obstetrics/Pediatrics</td>
<td>3</td>
</tr>
<tr>
<td>NURS 431L</td>
<td>High Risk Obstetrics/Pediatrics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>NURS 449</td>
<td>Leadership</td>
<td>2</td>
</tr>
<tr>
<td>NURS 449L</td>
<td>Leadership Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 470</td>
<td>Capstone</td>
<td>2</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 68
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Nursing (BSN)

Degree: Bachelor of Science in Nursing
Major: Nursing
Program Code: 3611

About This Major . . .

The four-year Bachelor of Science in Nursing program provides educational experiences to prepare a professional nurse generalist to practice in a variety of health care settings. The program integrates nursing theory, practice, and science with a broad liberal arts education. The program has been developed to prepare a highly competent professional with the education necessary to meet the increasing need for quality health care in society today and provides students with the foundation for graduate study in nursing. The department usually receives more nursing applications than it can accept. Therefore, grades and completion of required courses are considered in the application process, as well as the score on a standardized entrance test. Colorado Mesa's BSN nursing program started in 1988 and is fully accredited. The college is very proud to report that the graduates of this program have maintained a 90-100% pass rate on the National Council for Licensure Examination (NCLEX), which is the examination graduates must pass to obtain a license to practice as an RN. The BSN Program is approved by the Colorado State Board of Nursing and accredited by the Commission on Collegiate Nursing Education (CCNE).

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/nursing.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Promote a culture of respect and safety while communicating the importance of lifelong learning and professional career development. (Specialized Knowledge/Applied Learning)
2. Utilize scientific inquiry and quantitative reasoning as a base for patient care decisions. (Intellectual Skills/Quantitative Fluency)
3. Communicate a plan for integration of Evidence Based findings into professional nursing practice. (Intellectual Skills/Communication Fluency)
4. Employ critical thinking as a basis for nursing practice. (Critical Thinking)
5. Improve healthcare outcomes through interpersonal collaboration and communication, facilitating access to resources to meet diverse health care needs. (Information Literacy)
6. Integrate ethical principles of leadership and management in the delivery of health care. (Intellectual Skills/Communication Fluency)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 12</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 210L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3-4</td>
</tr>
<tr>
<td>or STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours** 31

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Foundation Courses
(15-16 semester hours, must pass all courses with a grade of “C” or higher)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 210L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3-4</td>
</tr>
<tr>
<td>or STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours** 15-16

### Program Specific Degree Requirements
(64 semester hours, must pass all courses with a grade of “C” or higher and maintain a 2.00 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 350</td>
<td>Health Assessment Across the Lifespan</td>
<td>3</td>
</tr>
<tr>
<td>NURS 350L</td>
<td>Health Assessment Across the Lifespan Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 353</td>
<td>Foundation of Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NURS 353L</td>
<td>Foundations of Nursing Practice Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>NURS 370</td>
<td>Pharmacology for Nurses I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 372</td>
<td>Professional Development I: Nursing Theory, Roles and Ethics</td>
<td>2</td>
</tr>
<tr>
<td>NURS 373</td>
<td>Acute and Chronic Illness I</td>
<td>4</td>
</tr>
<tr>
<td>NURS 373L</td>
<td>Acute and Chronic Illness I Clinical</td>
<td>3</td>
</tr>
<tr>
<td>NURS 388</td>
<td>Mental Health Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 388L</td>
<td>Mental Health Nursing Clinical</td>
<td>2</td>
</tr>
<tr>
<td>NURS 394</td>
<td>Nursing Research: An Evidenced-Based Practice</td>
<td>3</td>
</tr>
<tr>
<td>NURS 459</td>
<td>Family/Maternal/Child Nursing</td>
<td>4</td>
</tr>
<tr>
<td>NURS 459L</td>
<td>Family/Maternal/Child Nursing Clinical</td>
<td>3</td>
</tr>
<tr>
<td>NURS 472</td>
<td>Professional Development II: Health Informatics</td>
<td>3</td>
</tr>
<tr>
<td>NURS 473</td>
<td>Acute and Chronic Illness II</td>
<td>4</td>
</tr>
<tr>
<td>NURS 473L</td>
<td>Acute and Chronic Illness II Clinical</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 This is a 4 semester credit hour course. 3 credits apply to the Essential Learning requirement and 1 credit applies to Electives.

Other Lower Division Requirements
General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 3-4 semester hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select additional elective(s)</td>
<td>2-3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 64

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

RN to BSN, Nursing (BSN)

Degree: Bachelor of Science in Nursing
Major: Nursing: RN-BSN Option
Program Code: 3613

About This Major . . .

The Registered Nurse to Baccalaureate of Science in Nursing (BSN) Program is approved by the Colorado State Board of Nursing and accredited by the Commission on Collegiate Nursing Education (CCNE). This program is designed for Associate degree and Diploma RNs. Up to 38 credits from the Associate or diploma degree may transfer toward this BSN degree. The program provides educational experiences to prepare a professional nurse generalist to practice in a variety of health care settings. The program integrates nursing theory, practice, and science with a broad liberal arts education. The program has been developed to prepare a highly competent professional with the education necessary to meet the increasing need for quality health care in society today and provides students with the foundation for graduate study in nursing.

Colorado Mesa's BSN nursing program started in 1988 and has been fully accredited since its inception. The RN-BSN program began originally in 1979; the new program provides all nursing courses in an online format to provide better access to registered nurses.

For more information on this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Promote a culture of respect and safety. (Specialized Knowledge; Applied Learning)
2. Communicate the importance of lifelong learning and professional career development. (Applied Learning)
3. Integrate Evidence Based findings into professional nursing practice. (Applied Learning)
4. Utilize scientific inquiry and quantitative reasoning as a base for patient care decisions. (Quantitative Fluency)
5. Collaborate in inter-professional communication to improve healthcare outcomes. (Communication Fluency)
6. Integrate leadership and management principles in the delivery of health care. (Communication Fluency)

7. Employ critical thinking as a basis for nursing practice. (Critical Thinking)
8. Facilitate access to resources necessary to meet diverse health care needs. (Intellectual Skills-Critical Thinking)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
</tbody>
</table>

1. English

Humanities
Select one Humanities course
Social and Behavioral Sciences
PSYC 233 Human Growth and Development-GTSS3 3

Natural Sciences
Select one Natural Sciences course 3
Select one Natural Sciences course with a lab 2 4

History
Select one History course 3

Fine Arts
Select one Fine Arts course 3

Total Semester Credit Hours 31

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 BIOL 250 and BIOL 250L strongly recommended.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wellness Requirement</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning Capstone 1</td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

(15 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 210L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>15</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements

(31 semester hours, must pass all courses with a grade of “C” or higher and maintain a 2.0 GPA or higher in coursework in this area.)

Prior RN nursing coursework will be awarded up to 38 semester credit hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209 &amp; 209L</td>
<td>Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>13</td>
</tr>
</tbody>
</table>

Second Year

Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 210 &amp; 210L</td>
<td>Human Anatomy and Physiology II and Human Anatomy and Physiology II Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>13</td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209 &amp; 209L</td>
<td>Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>13</td>
</tr>
</tbody>
</table>

General Electives

(9 upper-division semester hours)

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select upper-division electives</td>
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<tr>
<td></td>
<td>Total Semester Credit Hours</td>
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</tr>
</tbody>
</table>

In addition to the courses indicated below, accepted prior RN nursing coursework will bring the total hours above the minimum of 120 semester credit hours required for graduation.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science with Lab 1</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - History</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Humanities</td>
<td>3</td>
</tr>
<tr>
<td>KINA Activity</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

First Year

Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209 &amp; 209L</td>
<td>Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
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<td></td>
<td>Total Semester Credit Hours</td>
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Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209 &amp; 209L</td>
<td>Human Anatomy and Physiology and Human Anatomy and Physiology Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
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<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>13</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Semester Credit Hours</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
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<td><strong>Semester Credit Hours</strong></td>
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**Third Year**

<table>
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<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>NURS 300 Developing the Baccalaureate Role</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NURS 408 Health Information Systems</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NURS 320 &amp; 320L Health Assessment &amp; Promotion for the Nurse Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Upper Division Nursing Elective</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>NURS 409 Quality Assessment &amp; Improvement in Health Care Settings</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NURS 410 &amp; 410L Population Health Nursing Practice Experience</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>NURS 426 Nursing Research &amp; Evidence-Based Practice</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Upper Division Nursing Elective</td>
<td>3</td>
</tr>
<tr>
<td>Fall</td>
<td>NURS 418 Gerontological Nursing &amp; Chronic Illness</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NURS 430 Leadership for the RN &amp; 430L Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>NURS 432 Capstone Leadership for the RN Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Upper Division Nursing Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>NURS 418 Gerontological Nursing &amp; Chronic Illness</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>NURS 430 Leadership for the RN &amp; 430L Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>NURS 432 Capstone Leadership for the RN Laboratory</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Upper Division Nursing Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>14</strong></td>
</tr>
</tbody>
</table>

1. BIOL 250 encouraged

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Practical Nursing (Technical Certificate)**

Degree: Technical Certificate  
Program of Study: Practical Nursing  
Program Code: 1612

**About This Major . . .**

This program is designed for students interested in becoming a Licensed Practical Nurse as an entry into the nursing career ladder program. Completion of the Practical Nurse Certificate allows students to progress onto the second year of the Associate of Applied Science in Nursing Degree or apply for advanced placement in the Bachelor of Science in Nursing Degree. The Practical Nursing program prepares the student to be a direct care giver in hospitals, long-term facilities, and ambulatory care-clinic settings.

The potential student must demonstrate college-level proficiency in reading and writing in order to be admitted to this program. This program has selective admission requirements and requirements may change from year to year. It is the student’s responsibility to obtain the current admission requirements.

All Essential Learning requirements and prerequisite courses must be in progress or completed before applying to the program. Additional admission requirements also apply. Please visit the Department of Health Sciences’ website ([https://www.coloradomesa.edu/health-sciences](https://www.coloradomesa.edu/health-sciences)) for a complete list of admission requirements and program information.

For more information on what you can do with this major, go to [http://www.coloradomesa.edu/career/whatmajor.html](http://www.coloradomesa.edu/career/whatmajor.html).

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Function as a competent practical nurse within a legal and ethical framework to provide holistic care to patients from diverse backgrounds. (Applied Learning)
2. Promote a therapeutic environment supporting communication across the lifespan for vulnerable and diverse populations. (Communication Fluency)
3. Demonstrate clinical decision-making and critical thinking skills to provide effective nursing care for individuals throughout the development stages across the lifespan. (Specialized Knowledge, Applied Learning)
4. In collaborative manner, organize and incorporate assessment data to plan/revise patient care based on established nursing diagnoses, assessments, and evaluate data. (Critical Thinking)
5. Utilize knowledge of the nursing process, patient needs, and the role of the nurse when providing safe, effective, and individualize patient care, which respects values, culture, and expressed needs. (Specialized Knowledge)
6. Implement the nursing process, utilizing critical thinking by collecting patient data, identifying patient needs, reporting findings, and providing input into the plan of care. (Applied Learning)

**Institutional Certificate Requirements**

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- A grade lower than "C" will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Specific to this program:**
- 57 semester hours for the Technical Certificate in Practical Nursing.

**Essential Learning Requirements**

(16 Semester Hours, must maintain a 2.0 cumulative GPA or higher for coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 210L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 16

1. Must receive a grade of “C” or better and must be completed or in the process of completion by March 1 application deadline. "Late start" or "second module" classes beginning after March 1 deadline do not count toward Essential Learning classes.

2. This course is counted with the Essential Learning courses, but is a prerequisite for the L.P.N. in Nursing program

**Foundation Courses**

(12 semester hours, must maintain a 2.0 cumulative GPA or higher for coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 210L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 12

**Program Specific Certificate Requirements**

(30 Semester Hours, must maintain a 2.0 cumulative GPA or higher for coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NURS 101</td>
<td>Pharmacology Calculations</td>
<td>1</td>
</tr>
<tr>
<td>NURS 106</td>
<td>Adult Concepts I</td>
<td>3</td>
</tr>
<tr>
<td>NURS 106L</td>
<td>Adult Concepts I Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>NURS 107</td>
<td>Foundations of Nursing</td>
<td>3</td>
</tr>
<tr>
<td>NURS 107L</td>
<td>Foundations of Nursing Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>NURS 109</td>
<td>Introduction to Mental Health</td>
<td>2</td>
</tr>
<tr>
<td>NURS 109L</td>
<td>Introduction to Mental Health Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>NURS 112</td>
<td>Basic Concepts of Pharmacology</td>
<td>2</td>
</tr>
<tr>
<td>NURS 117</td>
<td>Obstetrics and Pediatrics</td>
<td>4</td>
</tr>
<tr>
<td>NURS 117L</td>
<td>Obstetrics and Pediatrics Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>NURS 156</td>
<td>Socialization into Practical Nursing</td>
<td>1</td>
</tr>
<tr>
<td>NURS 172</td>
<td>Adult Concepts II</td>
<td>3</td>
</tr>
<tr>
<td>NURS 172L</td>
<td>Adult Concepts II Lab</td>
<td>3</td>
</tr>
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</table>

Total Semester Credit Hours 30

**Course Title Semester Credit Hours**

<table>
<thead>
<tr>
<th>First Year Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
</tr>
<tr>
<td>BIOL 209</td>
</tr>
<tr>
<td>BIOL 209L</td>
</tr>
<tr>
<td>MATH 110</td>
</tr>
</tbody>
</table>
Essential Learning - Social and Behavioral Sciences 3

Spring Semester
ENGL 112 English Composition-GTCO2 3
BIOL 210 Human Anatomy and Physiology II 2 3
BIOL 210L Human Anatomy and Physiology II Laboratory 2 1
PSYC 233 Human Growth and Development-GTSS3 2 3
BIOL 241 Pathophysiology 4

Second Year

Semester Credit Hours 13

Fall Semester
NURS 101 Pharmacology Calculations 1
NURS 106 Adult Concepts I 3
NURS 106L Adult Concepts I Laboratory 2
NURS 107 Foundations of Nursing 3
NURS 107L Foundations of Nursing Laboratory 3
NURS 112 Basic Concepts of Pharmacology 2

Semester Credit Hours 14

Spring Semester
NURS 109 Introduction to Mental Health 2
NURS 109L Introduction to Mental Health Laboratory 1
NURS 117 Obstetrics and Pediatrics 4
NURS 117L Obstetrics and Pediatrics Laboratory 2
NURS 156 Socialization into Practical Nursing 1
NURS 172 Adult Concepts II 3
NURS 172L Adult Concepts II Lab 3

Semester Credit Hours 16

Total Semester Credit Hours 57

1. Students desiring to progress onto the LPN- Bachelor of Science should check with their advisor to develop a full time schedule of Essential Learning and program requirements during this first year.

2. BIOL 209/BIOL 209L and BIOL 210/BIOL 210L must have been completed within five years prior to applying to the nursing program.

3. This course is counted with the Essential Learning courses, but is a prerequisite for the Licensed Practical Nursing program.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
PARAMEDIC

(See Emergency Medical Services (p. 379))
PEACE OFFICER STANDARDS AND TRAINING (POST)

Program Description
This police academy certificate program exceeds the Colorado Peace Officers Standards Training (POST) requirements for peace officer entry level training. The individual training requirements for arrest control, law enforcement driving and firearms are included in the program. Students enrolled in the program will earn 31 credit hours that may be applied towards an associate's or bachelor's of applied science degree at Colorado Mesa University.

Students admitted to the POST program must undergo a comprehensive background check.

Special Requirements
This is a 16-week program that requires full time participation during the weeks of enrollment. The program is not an open enrollment and requires a separate application to the academy. See the academy director for details.

Contact Information
Director, Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Certificates
• Peace Officer Academy - Peace Officer Standards and Training (POST) (Technical Certificate) (p. 609)

Peace Officer Academy - Peace Officer Standards and Training (POST) (Technical Certificate)
Degree: Technical Certificate
Program of Study: Peace Officer Academy - P.O.S.T. Certification
Program Code: 1361

About This Major . . .
The Peace Officer Academy certificate program exceeds the Colorado Peace Officers Standards Training (P.O.S.T) requirements for peace officer entry level training. The individual training requirements for Arrest Control, Law Enforcement Driving, and Firearms are included in the program. Students enrolled in the program will earn 31 credit hours that may be applied towards Associate or Bachelor's degrees at Mesa State.

This is an intensive 16 week course that requires full time participation during the weeks of enrollment, including some weekends. Many course days are 12 hours long: Mandatory Physical Fitness training occurs throughout the semester. This Academy is sponsored by the Grand Junction P.D., Mesa County S.O., and the 21st Judicial District Attorney's Office. The program is not an open enrollment program and requires a separate application to the Academy. Please contact the Academy Director or visit our web page for details.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Illustrate communication and writing skills that are formal and professional in nature. (Communication Fluency)
2. Apply mathematical concepts required of entry level law enforcement and criminal justice professionals. (Quantitative Fluency)
3. Demonstrate critical thinking skills by evaluating and analyzing contemporary issues in law enforcement and criminal justice using knowledge of criminal justice concepts, terminology, and theories. (Critical Thinking)
4. Demonstrate specialized and holistic knowledge of the Criminal Justice system and the law enforcement profession. (Specialized Knowledge)
5. Demonstrate proficiency in basic skills required for entry level law enforcement and criminal justice professionals. (Applied Learning)
6. Examine ethical standards and practices, specific to law enforcement, the courts, and corrections. (Specialized Knowledge)

Institutional Certificate Requirements
The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.
• Consists of 100-200 level courses.
• At least fifty percent of the credit hours must be taken at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A grade lower than "C" will not be counted toward meeting the requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.
Program Specific Certificate Requirements

(31 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJW 101</td>
<td>Basic Police Academy</td>
<td>6</td>
</tr>
<tr>
<td>CRJW 102</td>
<td>Basic Police Academy II</td>
<td>10</td>
</tr>
<tr>
<td>CRJW 105</td>
<td>Basic Law</td>
<td>6</td>
</tr>
<tr>
<td>CRJW 106</td>
<td>Arrest Control</td>
<td>3</td>
</tr>
<tr>
<td>CRJW 107</td>
<td>Law Enforcement Driving</td>
<td>2</td>
</tr>
<tr>
<td>CRJW 108</td>
<td>Firearms</td>
<td>3</td>
</tr>
<tr>
<td>KINA 127</td>
<td>Physical Conditioning</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 31

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.

- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
PERSONAL TRAINING

(See Kinesiology (p. 483))
PHILOSOPHY

Program Description
Philosophy explores fundamental questions such as: What is important? What is valuable? How do we tell truths from falsehoods? How should we behave? What is the best way to live? The answers to these questions apply to other disciplines, problems, and life endeavors. Studying philosophy improves one’s ability to think critically, read closely, and write clearly, and these are skills used in every career and profession.

Contact Information
Dr. Les Miller
Department of Languages, Literature, and Mass Communication
Escalante Hall 237
970.248.1687

Minors
• Philosophy (Minor) (p. 612)

Philosophy (Minor)
Minor: Philosophy
Program Code: M280

About This Minor...
Philosophy is unlike any other field, yet it applies to them all as it is the field from which all others arose. Philosophy retains as part of its function the critical inquiry into all other disciplines, problems, and life endeavors. While a career in philosophy usually means teaching philosophy, many professionals—writers, journalists, psychologists, doctors, lawyers, scientists, and many others—have degrees in philosophy because the skills philosophical thinking requires are essential to so many other areas.

Institutional Minor Requirements
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

• A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
• Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
• At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
• At least 25 percent of the classes must be taken at CMU.
• 2.00 cumulative GPA or higher for the courses used for the minor.
• A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
• A minor must be outside the major field of study.
• A student may earn up to five minors with any baccalaureate degree at CMU.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements
(18 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL</td>
<td>Introduction to Philosophy-GTAH3</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Ethics-GTAH3</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Philosophy of Religion-GTAH3</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Introduction To Logic</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 9

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHIL</td>
<td>The Examined Life</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>The Roots of Western Thought</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Topics</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Major Thinker</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Major Works</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Major Issues</td>
<td>3</td>
</tr>
<tr>
<td>PHIL</td>
<td>Topics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 9

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
The Colorado Mesa University Master of Physician Assistant Studies (MPAS) Program will not commence unless and until both the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA) and the Higher Learning Commission have approved the program. CMU has applied for Accreditation - Provisional from the ARC-PA. CMU anticipates matriculating its first class in January 2019, pending achieving Accreditation - Provisional status at the September 2018 ARC-PA meeting. Accreditation - Provisional is an accreditation status granted when the plans and resource allocation, if fully implemented as planned, of a proposed program that has not yet enrolled students appear to demonstrate the program’s ability to meet the ARC-PA Standards or when a program holding accreditation-provisional status appears to demonstrate continued progress in complying with the Standards as it prepares for the graduation of the first class (cohort) of students. The program will not commence in the event that provisional accreditation is not received.

For updates on program accreditation and general program information, please visit the Masters of Physician Assistant Studies (https://www.coloradomesa.edu/kinesiology/graduate/pa-program) website.

Contact Information
Department of Kinesiology
Maverick Center 237B
970.248.1635

Graduate
• Physician Assistant (MPAS) (p. 613)

Physician Assistant (MPAS)
Degree: Master of Physician Assistant Studies
Program of Study: Physician Assistant
Program Code: 8160

About This Program . . .
The Physician Assistant program is a post-baccalaureate program, leading to a Master of Physician Assistant Studies degree (MPAS).

A Physician Assistant (PA) is a healthcare professional who is licensed to practice medicine under the supervision of a Doctor of medicine (MD) or Doctor of osteopathic medicine (DO) and can exercise delegated autonomy in decision-making. Physician Assistants can make clinical decisions and provide a variety of diagnostic, therapeutic, preventive, and health maintenance services to patients.

The CMU PA program offers a student-centered curriculum that has a unique emphasis on training compassionate and competent PAs to be ambassadors of wellness in their careers and communities. Our program places emphasis on wellness promotion and disease prevention for the individual patient and the community. The program is a rigorous 27-month, full-time on campus program consisting of 112 credits. The CMU PA Program curriculum is designed to educate clinicians with the knowledge and skills to be agents of excellence and innovation in the delivery of quality healthcare to the communities of Western Colorado and beyond.

To become a certified PA following completion of a Master’s program, you must pass the Physician Assistant National Certifying Exam (PANCE) (http://www.nccpa.net).

Important information for this program:
• Enrollment requires PA program acceptance. Please see the catalog and program website for specific admissions requirements.
• All courses and course sequencing are required and must be completed at CMU.
• Students must successfully pass all didactic, clinical course work, and summative exam.

Institutional Graduate Degree Requirements
The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Graduate certificates consist of a minimum of 5 credit hours. Master's degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours
• All credits in a graduate program must be minimally at the 500-level.
• At least fifty percent of the credit hours must be taken at CMU.
• Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
• Students may not apply coursework with a grade lower than a “B” toward graduation requirements.
• A course may only be used to fulfill one requirement for each degree/ certificate.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:
• 112 semester hours for the MPAS in Physician Assistant.

Program Specific Requirements
(112 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 500</td>
<td>Advanced Human Anatomy</td>
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</tr>
<tr>
<td>&amp; 500L</td>
<td>and Advanced Human Anatomy Laboratory</td>
<td></td>
</tr>
<tr>
<td>PHAS 501</td>
<td>Biomedical Science</td>
<td>4</td>
</tr>
<tr>
<td>PHAS 502</td>
<td>Clinical Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>PHAS 503</td>
<td>Health Promotion and Disease Prevention</td>
<td>2</td>
</tr>
<tr>
<td>PHAS 510</td>
<td>Foundation to Clinical Medicine</td>
<td>2</td>
</tr>
<tr>
<td>PHAS 511</td>
<td>Clinical Medicine I</td>
<td>13</td>
</tr>
<tr>
<td>PHAS 512</td>
<td>Clinical Medicine II</td>
<td>13</td>
</tr>
<tr>
<td>PHAS 513</td>
<td>Clinical Medicine III</td>
<td>13</td>
</tr>
</tbody>
</table>
PHAS 520 & 520L History and Physical Exam and History and Physical Exam Lab 3
PHAS 521 Patient Assessment, Diagnostics and Clinical Skills Lab I 2
PHAS 522 Patient Assessment, Diagnostics and Clinical Skills Lab II 2
PHAS 523 Patient Assessment, Diagnostics and Clinical Skills Lab III 2
PHAS 530 Introduction to Research and Evidence-Based Medicine 2
PHAS 531 Clinical Reasoning I 2
PHAS 532 Clinical Reasoning II 2
PHAS 533 Clinical Reasoning III 2
PHAS 541 PA Professionalism I 2
PHAS 542 PA Professionalism II 2
PHAS 543 PA Professional Capstone 1
PHAS 570 Clinical Year Seminar 1
PHAS 571 Family Medicine Rotation 4
PHAS 572 Behavioral Medicine and Mental Health Rotation 2
PHAS 573 Internal Medicine Rotation 4
PHAS 574 Women’s Health Rotation 2
PHAS 575 Pediatric Medicine Rotation 2
PHAS 576 Surgery Rotation 4
PHAS 577 Emergency Medicine Rotation 4
PHAS 578 Inpatient Medicine Rotation 4
PHAS 579 Elective Rotation I 4
PHAS 580 Elective Rotation II 4
PHAS 581 Summative Seminar 1

Total Semester Credit Hours 112

Note: The below rotation schedule is a version of a possible schedule. Individual student's rotation schedules during the clinical year will vary. Also, while the sequencing below culminates in a total of 113-115 semester credit hours, students must complete a minimum of 112 semester credit hours as required for completion of the degree. Plan to complete requirements with varying hour options accordingly and consult with advisor.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.
PHYSICS

Program Description
Physics is the study of the universe: what it’s made of and how it works, ranging from stars and galaxies to atoms and nuclei and everything in between. Physics is the foundation of many technical fields, such as electronics and optics, and also features prominently in many of the hottest areas of current research and innovation, such as the multidisciplinary fields of nanotechnology and biophysics. Physics majors have gone on to graduate programs in physics, materials science, aerospace engineering, electrical engineering and to medical school. They have also gone directly into jobs in engineering, business and research.

A physics minor is a valuable complement to a major in mathematics, biology, chemistry, geology or environmental science.

Contact Information
Department of Physical and Environmental Sciences
Wubben Science 232
970.248.1993

Associates
• Physics, Liberal Arts (AS) (p. 619)

Bachelors/Minors
• Physics (BS) (p. 616)
• Physics (Minor) (p. 621)

Physics (BS)
Degree: Bachelor of Science
Major: Physics
Program Code: 3471

About This Major . . .
Physics is the study of the universe: what it’s made of and how it works, ranging from stars and galaxies to atoms and nuclei and everything in between. Physics forms the foundation of many technical fields including electronics and optics. Physics also features prominently in many of the hottest areas of current research and innovation, such as the multidisciplinary fields of nanotechnology and biophysics.

The physics program serves as a foundation for a wide array of careers. Physics majors from Colorado Mesa University have gone on to graduate programs in physics, astrophysics, chemistry, materials science, aerospace engineering, electrical engineering, and to medical school. They have also gone directly into jobs in engineering, business, and research. Over the last ten years Colorado Mesa physics majors have gone to graduate schools at the University of Colorado Boulder, University of Utah, Purdue University, and Washington State University.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Show fluency with the major fields of physics (classical mechanics, electromagnetism, statistical physics, and quantum theory). (Specialized Knowledge)
2. Use mathematical representations to analyze physical scenarios. (Quantitative Fluency)
3. Use laboratory techniques to investigate experimentally physical phenomena. (Applied Learning)
4. Communicate effectively about topics in physics. (Communication Fluency)
5. Execute a project which addresses a significant and complex issue in physics. This project will integrate knowledge and techniques from different areas of physics. (Specialized Knowledge/Applied Learning)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.
**English 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
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</table>

**Mathematics 1**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>3</td>
</tr>
</tbody>
</table>

**History**

Select one History course 3

**Humanities**

Select one Humanities course 3

**Social and Behavioral Sciences**

Select one Social and Behavioral Sciences course 3

**Fine Arts**

Select one Fine Arts course 3

**Natural Sciences**

Select one Natural Sciences course 3

Select one Natural Sciences course with a lab 4

Total Semester Credit Hours 31

1 Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.

2 This is a 5 credit course. 3 credits apply to the Essential Learning requirements and 2 credits apply to electives.

**Other Lower Division Requirements**

**Wellness Requirement**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
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</table>

Select one Activity course 1

**Essential Learning Capstone**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

**Foundation Courses**

(14 semester hours, must earn a grade of "C" or better in all courses)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCI 111</td>
<td>CS1: Foundations of Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 110 &amp; 110L</td>
<td>Beginning Programming and Beginning Programming Laboratory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 131</td>
<td>Fundamental Mechanics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 131L</td>
<td>Fundamental Mechanics Laboratory-GTSC1</td>
<td>1</td>
</tr>
</tbody>
</table>

**Program Specific Degree Requirements**

(50-51 semester hours, must pass all courses with a grade of "C" or higher and maintain a 2.00 cumulative GPA or higher in coursework in this area.)

**Core Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>PHYS 230</td>
<td>Intermediate Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 231</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 251</td>
<td>Electronics for Scientists</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 252</td>
<td>Intermediate Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 311</td>
<td>Electromagnetic Theory I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 321</td>
<td>Quantum Theory I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 331</td>
<td>Advanced Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>PHYS 342</td>
<td>Advanced Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 362</td>
<td>Statistical and Thermal Physics</td>
<td>3</td>
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<tr>
<td>PHYS 482</td>
<td>Senior Research</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 482</td>
<td>Senior Research</td>
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<tr>
<td>PHYS 494</td>
<td>Physics Seminar</td>
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<tr>
<td>PHYS 494</td>
<td>Physics Seminar</td>
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<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>5</td>
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<tr>
<td>MATH 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 260</td>
<td>Differential Equations</td>
<td>3-4</td>
</tr>
<tr>
<td>or MATH 236</td>
<td>Differential Equations and Linear Algebra</td>
<td></td>
</tr>
<tr>
<td>MATH 360</td>
<td>Methods of Applied Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 44-45

**Restricted Electives**

Select two of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 312</td>
<td>Electromagnetic Theory II</td>
<td></td>
</tr>
<tr>
<td>PHYS 396</td>
<td>Topics 1</td>
<td></td>
</tr>
<tr>
<td>PHYS 422</td>
<td>Quantum Theory II</td>
<td></td>
</tr>
<tr>
<td>PHYS 441</td>
<td>Solid State Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 471</td>
<td>Computational Physics I</td>
<td></td>
</tr>
<tr>
<td>PHYS 472</td>
<td>Computational Physics II</td>
<td></td>
</tr>
<tr>
<td>PHYS 473</td>
<td>Modern Optics</td>
<td></td>
</tr>
<tr>
<td>PHYS 496</td>
<td>Topics 1</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1 PHYS 396/PHYS 496 may be taken more than once so long as the topic is not repeated.
General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 18-19 semester hours; 13-14 hours of upper division may be needed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Select additional electives</td>
<td>16-17</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>18-19</td>
</tr>
</tbody>
</table>

While the sequencing below culminates in at total of 119-121 semester credit hours, students must complete a minimum of 120 semester credit hours as required for completion of the degree.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 131</td>
<td>Fundamental Mechanics-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 131L</td>
<td>and Fundamental Mechanics Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GTMA1</td>
<td>5</td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTDC1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>16</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 132</td>
<td>Electromagnetism and Optics-GTSC1</td>
<td>5</td>
</tr>
<tr>
<td>&amp; 132L</td>
<td>and Electromagnetism and Optics Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTDC2</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>16</td>
</tr>
<tr>
<td><strong>Second Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 230</td>
<td>Intermediate Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 251</td>
<td>Electronics for Scientists</td>
<td>3</td>
</tr>
<tr>
<td>MATH 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>KINA Activity</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSCI 111</td>
<td>CS1: Foundations of Computer Science</td>
<td>4</td>
</tr>
<tr>
<td>CSCI 110 &amp; 110L</td>
<td>Beginning Programming and Beginning Programming Laboratory</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>15</td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 231</td>
<td>Modern Physics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 252</td>
<td>Intermediate Laboratory</td>
<td>2</td>
</tr>
<tr>
<td>MATH 250 or MATH 236</td>
<td>Differential Equations or Differential Equations and Linear Algebra</td>
<td>3-4</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>15-16</td>
</tr>
<tr>
<td><strong>Third Year</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHYS 311</td>
<td>Electromagnetic Theory I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 342</td>
<td>Advanced Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 331</td>
<td>Advanced Laboratory I</td>
<td>2</td>
</tr>
<tr>
<td>MATH 350</td>
<td>Methods of Applied Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>14</td>
</tr>
</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 321</td>
<td>Quantum Theory I</td>
<td>3</td>
</tr>
<tr>
<td>PHYS 362</td>
<td>Statistical and Thermal Physics</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Natural Science with Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Electives</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>16</td>
</tr>
</tbody>
</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 482</td>
<td>Senior Research</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 494</td>
<td>Physics Seminar</td>
<td>1</td>
</tr>
<tr>
<td>General Electives</td>
<td>9</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>14</td>
</tr>
</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning - Natural Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PHYS 482</td>
<td>Senior Research</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 494</td>
<td>Physics Seminar</td>
<td>1</td>
</tr>
<tr>
<td>General Electives</td>
<td>4-5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>13-14</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
<td>119-121</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

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- Register for all needed courses and complete all requirements for each degree sought.

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**Physics, Liberal Arts (AS)**

**Degree:** Associate of Science  
**Major:** Liberal Arts  
**Emphasis:** Physics  
**Program Code:** 2433

**About This Major . . .**

The Associate of Science (A.S.) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The A.S. is the appropriate choice for students who will take upper division coursework in mathematics, biological sciences, and physical sciences. The degree program includes the Colorado Statewide Essential Learning Core and meets the lower division Essential Learning requirements at most public institutions in Colorado. A number of emphases are available within the A.S. degree. Students choosing one of these emphases will take courses in a discipline in addition to the Essential Learning core.

Physics is the study of the universe: what it’s made of and how it works, ranging from stars and galaxies to atoms and nuclei and everything in between. Physics forms the foundation of many technical fields including electronics and optics. Physics also features prominently in many of the hottest areas of current research and innovation, such as the multidisciplinary fields of nanotechnology and biophysics. Our goal is to provide students with the critical and analytical thinking skills needed to solve problems. This skill set prepares students for further study and for jobs in engineering, business, and research.

For more information on what you can do with this major, go to [http://www.coloradomesa.edu/career/whatmajor.html](http://www.coloradomesa.edu/career/whatmajor.html).

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Show fluency with aspects of the major fields of physics typical for introductory and sophomore level physics courses. (Specialized Knowledge)
2. Use mathematical representation to analyze physical scenarios. (Quantitative Fluency)
3. Use laboratory techniques to analyze physical scenarios. (Critical Thinking)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU or WCCC Associate of Science (AS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours total.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade of "C" or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado's guaranteed transfer program.

- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 15 semester credit hours for an associate of science degree. A maximum of 6 of the 15 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
</tbody>
</table>

**Total Semester Credit Hours**

31

1. Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2. This is a 5 credit course. 3 credits apply to the Essential Learning requirements and 2 credits apply to Physics Specialization courses.
Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wellness Requirement</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>2</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements

(24 Semester Hours. No more than one "D" may be used in satisfying major requirements. Additionally, a cumulative grade point average of 2.5 or higher must be maintained for coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 131</td>
<td>Fundamental Mechanics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 131L</td>
<td>Fundamental Mechanics Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 132</td>
<td>Electromagnetism and Optics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 132L</td>
<td>Electromagnetism and Optics Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>Intermediate Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>or PHYS 231</td>
<td>Modern Physics</td>
<td></td>
</tr>
</tbody>
</table>

Physics Specialization Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>2</td>
</tr>
<tr>
<td>MATH 152</td>
<td>Calculus II</td>
<td>5</td>
</tr>
<tr>
<td>MATH 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

24

General Electives

(3 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select elective(s)</td>
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</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>3</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>MATH 253</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science with lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td>PHYS 230</td>
<td>Intermediate Dynamics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science without lab</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Wellness Requirement - Activities Course</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

60

1 Students that intend to continue with Colorado Mesa University should take ESSL 290 and ESSL 200 during the final semester of their Associate of Science work.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

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- Register for all needed courses and complete all requirements for each degree sought.

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Physics (Minor)

Minor: Physics
Program Code: M430

About This Minor...

Physics is the study of the universe: what it is made of and how it works, ranging from stars and galaxies to atoms and nuclei and everything in between. Physics forms the foundation of many technical fields, including electronics and optics. Physics features prominently in many of the hottest areas of current research and innovation, such as the multidisciplinary fields of nanotechnology and biophysics.

A physics minor is a good complement to a mathematics, chemistry, geology, environmental science, or biology major.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(20 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 131</td>
<td>Fundamental Mechanics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 131L</td>
<td>Fundamental Mechanics Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 132</td>
<td>Electromagnetism and Optics-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 132L</td>
<td>Electromagnetism and Optics Laboratory-GTSC1</td>
<td>1</td>
</tr>
<tr>
<td>PHYS 230</td>
<td>Intermediate Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>or PHYS 231</td>
<td>Modern Physics</td>
<td></td>
</tr>
<tr>
<td>PHYS 494</td>
<td>Physics Seminar</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>3 semester hours of Upper Division Physics Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

- PHYS 311 Electromagnetic Theory I
- PHYS 321 Quantum Theory I
- PHYS 342 Advanced Dynamics
- PHYS 362 Statistical and Thermal Physics

Total Semester Credit Hours 20

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
POLITICAL SCIENCE

Program Description

The political science program provides students with a working knowledge of the concepts, theories, approaches and practical applications of political and governmental systems within the local, state, national and international arenas. Graduates are equipped to compete in the job market and the marketplace of ideas.

Regarding the job market, majors work closely with their academic advisor to customize a curriculum that prepares them for competitive applications to law or graduate school, and/or careers in government, non-profit organizations, global advocacy, business, military or homeland security, and emergency management. In addition to holding elective office, graduates have worked as lobbyists, congressional staff members, gubernatorial staff, and state agency officials. Graduates have also been admitted to law school or graduate school at: Denver University, Cornell University, Colorado State University, George Mason University, The University of Minnesota, the University of New Mexico, UC Denver, and the University of Colorado. Internship opportunities allow students to gain experience and employment while furthering their education. Recent interns have served in the U.S. Congress, the Colorado General Assembly, the Mesa County District Attorney’s Office, state-level agencies, for the City of Fruita, and for congressional campaigns. Many former student interns are now working in jobs they obtained directly as a result of their internship experience.

Regarding the marketplace of ideas, the program builds engaged, global citizens who explore all sides of issues, think critically, communicate clearly, and use their skills responsibly. To that end, students have worked with faculty on research projects (as volunteers or as paid research assistants) on recreation management, natural resource management, and economic development. The program culminates in a senior seminar where students develop original research projects. Recent topics included studies on minority exclusion from the environmental movement, the sponsorship of pro and anti-marijuana legalization campaigns, the causes of international terrorism, the impact of high school civics education on voter turnout, and migrant labor in the European Union. Faculty sponsor a Political Science Club, a local chapter of the national honor society Pi Sigma Alpha, and the International Relations Club.

A minor in political science is an excellent complement for students majoring in many other fields, particularly mass communications, business, and criminal justice. The minor provides a diverse understanding of politics and government organizations; this is helpful to anyone working in a career that is either regulated by government, has government as a customer, or needs to lobby government to protect its interests.

Desmond Tutu famously said; “Don’t raise your voice, improve your argument.” Nowhere does this advice seem more pertinent than in today’s political environment. Graduates leave the program with strong arguments and marketable skills. The goal of the political science faculty is to help students become well-rounded citizens by preparing them to compete in both the employment market and the marketplace of ideas.

Contact Information

Department of Social and Behavioral Sciences
Lowell Heiny Hall 413

Bachelors/Minors

- Political Science (BA) (p. 622)
- Political Science (Minor) (p. 625)

Political Science (BA)

Degree: Bachelor of Arts
Major: Political Science
Program Code: 3718

About This Major . . .

The Political Science program provides students with a working knowledge of the concepts, theories and approaches to the discipline of Political Science and their practical application to political and governmental systems within the state, national and international arenas. Students majoring in Political Science are prepared for careers in government, law, criminal justice, and non-governmental organizations. Many graduates are currently employed as Congressional Staff members, Gubernatorial Staff, state agency officials, hold elective office or have successfully graduated from law school.

One attractive aspect of the program is the opportunity to intern in a variety of settings in Washington, D.C., Denver and Grand Junction. These internships allow students a chance to acquire practical experience while increasing the opportunity to network. Many of our student interns are now working in jobs they obtained directly as a result of their internship experience. CMU political science graduates have also been successful in gaining entrance to graduate and law schools. The Political Science program supports a Political Science Club and a local chapter of the national honor society Pi Sigma Alpha.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Critically analyze the theories and concepts relevant to political science (Specialized Knowledge);
2. Defend a political argument using established methods (empirical and normative) in the field of political science (Intellectual Skills, Communication Fluency);
3. Articulate diverse perspective surrounding a political issue (Critical Thinking);
4. Devise a strategy to promote civic involvement within the broader community for themselves and others (Civic Engagement)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.
• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>English</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Mathematics</strong></td>
<td></td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>History</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Humanities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Social and Behavioral Sciences</strong></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Fine Arts</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Natural Sciences</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
</tbody>
</table>

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Wellness Requirement</strong></td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Essential Learning Capstone</strong></td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Foundation Courses

(6 semester hours, must pass all courses with a grade of “C” or higher)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Two consecutive classes in the same foreign language</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>6</td>
</tr>
</tbody>
</table>

1 FLAS 114 & FLAS 115 will not fulfill this requirement. Must receive a grade of “C” or higher.

### Program Specific Degree Requirements

(60 semester hours, must pass all courses with a grade of “C” or higher and maintain a 2.00 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Political Science Core</strong></td>
<td></td>
</tr>
<tr>
<td>POLS 101</td>
<td>American Government-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>POLS 151</td>
<td>Introduction to Political Ideas</td>
<td>3</td>
</tr>
<tr>
<td>POLS 201</td>
<td>Introduction to Political Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>POLS 236</td>
<td>State and Local Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS 261</td>
<td>Comparative Politics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>POLS 270</td>
<td>World Politics</td>
<td>3</td>
</tr>
<tr>
<td>POLS 351</td>
<td>Public and Elite Political Behavior</td>
<td>3</td>
</tr>
<tr>
<td>POLS 490</td>
<td>Senior Seminar for Political Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Political Science Electives</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Political Theory</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td></td>
</tr>
<tr>
<td>POLS 452</td>
<td>Political Theory: Classical and Medieval</td>
<td>3</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Semester Credit Hours</td>
</tr>
<tr>
<td>--------</td>
<td>----------------------------------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>POLS 453</td>
<td>Political Theory: Modern</td>
<td></td>
</tr>
<tr>
<td>POLS 482</td>
<td>International Relations Theory</td>
<td></td>
</tr>
<tr>
<td><strong>American Politics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following: 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POLS 324</td>
<td>The Legislative Process</td>
<td></td>
</tr>
<tr>
<td>POLS 325</td>
<td>The American Presidency</td>
<td></td>
</tr>
<tr>
<td>POLS 328</td>
<td>The American Court System</td>
<td></td>
</tr>
<tr>
<td>POLS 412</td>
<td>Constitutional Law</td>
<td></td>
</tr>
<tr>
<td><strong>Global Politics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following: 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POLS 366</td>
<td>Government and Politics of Asia</td>
<td></td>
</tr>
<tr>
<td>POLS 372</td>
<td>Peace and Conflict Studies</td>
<td></td>
</tr>
<tr>
<td>POLS 373</td>
<td>Global Politics of Women and Gender</td>
<td></td>
</tr>
<tr>
<td>POLS 471</td>
<td>Politics of Global Governance</td>
<td></td>
</tr>
<tr>
<td>POLS 472</td>
<td>International Political Economy</td>
<td></td>
</tr>
<tr>
<td>POLS 475</td>
<td>American Foreign and National Security Policy</td>
<td></td>
</tr>
<tr>
<td><strong>Political Issues</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following: 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>POLS 352</td>
<td>Religion and Politics</td>
<td></td>
</tr>
<tr>
<td>POLS 353</td>
<td>Politics of Human and Natural Resources</td>
<td></td>
</tr>
<tr>
<td>POLS 354</td>
<td>Political Geography</td>
<td></td>
</tr>
<tr>
<td>POLS 356</td>
<td>Indigenous Politics</td>
<td></td>
</tr>
<tr>
<td>POLS 462</td>
<td>Public Policy: Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>POLS 488</td>
<td>Environmental Politics and Policy</td>
<td></td>
</tr>
<tr>
<td><strong>Public Administration</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following: 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PADM 315</td>
<td>Public Management</td>
<td></td>
</tr>
<tr>
<td>PADM 350</td>
<td>Ethics in Public Administration</td>
<td></td>
</tr>
<tr>
<td>PADM 442</td>
<td>Public Budgeting</td>
<td></td>
</tr>
<tr>
<td>PADM 446</td>
<td>Public Personnel Management</td>
<td></td>
</tr>
<tr>
<td>POLS 342</td>
<td>Public Administration</td>
<td></td>
</tr>
<tr>
<td>EMDP 211</td>
<td>Introduction to Emergency Management</td>
<td></td>
</tr>
<tr>
<td><strong>Political Science Specialization</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select four additional courses from Political Theory, American Politics, Global Politics, Political Issues and/or Public Administration</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Career Preparation</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following: 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td></td>
</tr>
<tr>
<td>SPCH 304</td>
<td>Communication and Conflict</td>
<td></td>
</tr>
<tr>
<td>SPCH 305</td>
<td>Communication: Culture, Diversity and Gender</td>
<td></td>
</tr>
<tr>
<td>SPCH 306</td>
<td>Communication and Leadership</td>
<td></td>
</tr>
<tr>
<td>SPCH 308</td>
<td>Argumentation and Debate</td>
<td></td>
</tr>
<tr>
<td>SOCI 470</td>
<td>Pre-Law in Practice</td>
<td></td>
</tr>
<tr>
<td>POLS 395</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>POLS 396</td>
<td>Topics</td>
<td></td>
</tr>
<tr>
<td>POLS 495</td>
<td>Independent Study</td>
<td></td>
</tr>
<tr>
<td>POLS 496</td>
<td>Topics</td>
<td></td>
</tr>
<tr>
<td>POLS 499</td>
<td>Internship</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>54</td>
<td></td>
</tr>
</tbody>
</table>

**Restricted Electives**

Select 2 of the following Political Science related courses: 6

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRMJ 420</td>
<td>Criminal Law</td>
<td></td>
</tr>
<tr>
<td>CRMJ 425</td>
<td>Trial, Evidence and Legal Advocacy</td>
<td></td>
</tr>
<tr>
<td>EMDP 321</td>
<td>Hazard Preparedness and Mitigation</td>
<td></td>
</tr>
<tr>
<td>EMDP 331</td>
<td>Disaster Response and Recovery</td>
<td></td>
</tr>
<tr>
<td>HIST 303</td>
<td>History of Modern Germany</td>
<td></td>
</tr>
<tr>
<td>HIST 315</td>
<td>American Indian History</td>
<td></td>
</tr>
<tr>
<td>HIST 320</td>
<td>The American West</td>
<td></td>
</tr>
<tr>
<td>HIST 333</td>
<td>The International History of the Cold War</td>
<td></td>
</tr>
<tr>
<td>HIST 342</td>
<td>The Early American Republic</td>
<td></td>
</tr>
<tr>
<td>HIST 346</td>
<td>The United States in the 1950's and 1960's</td>
<td></td>
</tr>
<tr>
<td>HIST 371</td>
<td>20th Century United States Women's History</td>
<td></td>
</tr>
<tr>
<td>HIST 400</td>
<td>The Soviet Union and Eastern Europe</td>
<td></td>
</tr>
<tr>
<td>HIST 403</td>
<td>East Asia and the Modern World</td>
<td></td>
</tr>
<tr>
<td>HIST 406</td>
<td>History of the African Continent</td>
<td></td>
</tr>
<tr>
<td>HIST 410</td>
<td>Environmental History of the United States</td>
<td></td>
</tr>
<tr>
<td>HIST 425</td>
<td>History of Sexuality</td>
<td></td>
</tr>
<tr>
<td>PSYC 320</td>
<td>Social Psychology</td>
<td></td>
</tr>
<tr>
<td>SOCI 101</td>
<td>Introduction to Lesbian, Gay, Bisexual, and Transgender Studies</td>
<td></td>
</tr>
<tr>
<td>SOCI 410</td>
<td>Death, Dying &amp; Bereavement</td>
<td></td>
</tr>
<tr>
<td>SOCO 300</td>
<td>Political Sociology</td>
<td></td>
</tr>
<tr>
<td>SOCO 305</td>
<td>Environmental Sociology</td>
<td></td>
</tr>
<tr>
<td>SOCO 310</td>
<td>Sociology of Religion</td>
<td></td>
</tr>
<tr>
<td>SOCO 312</td>
<td>Social Movements and Political Activism</td>
<td></td>
</tr>
<tr>
<td>SOCO 314</td>
<td>Population</td>
<td></td>
</tr>
<tr>
<td>SOCO 316</td>
<td>Social Inequality</td>
<td></td>
</tr>
<tr>
<td>SOCO 325</td>
<td>Race and Ethnic Relations</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**General Electives**

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 16 semester hours; 7 hours of upper division may be needed

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select electives</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>16</td>
<td></td>
</tr>
</tbody>
</table>

While the sequencing below culminates in at total of 119-120 semester credit hours, students must complete a minimum of 120 semester credit hours as required for completion of the degree. The number of General Electives hours taken by a student can be adjusted to meet this minimum.
### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

### Political Science (Minor)

**Minor: Political Science**  
Program Code: M730

**About This Minor. . .**

A minor in Political Science is a great complement for students majoring in any other field, particularly Mass Communications and Criminal Justice. The degree provides a thorough understanding of politics and government organizations which is helpful to anyone working in a career that is either regulated by government, has government as a customer, or needs to lobby government to protect its interests.

### Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.
A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.

- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Program Specific Minor Requirements
(24 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 101</td>
<td>American Government-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>POLS 151</td>
<td>Introduction to Political Ideas</td>
<td>3</td>
</tr>
<tr>
<td>POLS 201</td>
<td>Introduction to Political Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>POLS 236</td>
<td>State and Local Government</td>
<td>3</td>
</tr>
<tr>
<td>POLS 270</td>
<td>World Politics</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 semester hours of Upper Division POLS - Political Science</td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 24

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.

### Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.
PROCESS SYSTEMS TECHNOLOGY

Program Description
The process systems technology program prepares students for entry-level employment as process operators or technicians. A process operator/technician is a key member of a team of people responsible for planning, analyzing and controlling the production of products from the acquisition of raw materials through the production and distribution of products to customers in a variety of process industries.

This program provides an understanding of process equipment and its principles of operation and control. The graduate will understand the technical aspects of the work, the responsibilities of the work and the importance of safety in this vitally important, shift-oriented position. Industries interested in the graduates from the program include, but are not limited to, oil exploration and production, mining and mineral processing, petroleum product manufacturing, advanced manufacturing, pharmaceutical production, food and beverage, electric power generation, drinking water treatment and wastewater treatment.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Certificates
• Control Systems Technician, Process Systems Technology (Technical Certificate) (p. 627)
• Electronics Technician, Process Systems Technology (Technical Certificate) (p. 628)

Control Systems Technician, Process Systems Technology (Technical Certificate)
Degree: Technical Certificate
Program of Study: Process Systems Technology
Specialization: Control Systems Technician
Program Code: 1114

About This Major . . .
The Process Technology Program will prepare students for entry level employment as process operators or technicians. A process operator/technician is a key member of a team of people responsible for planning, analyzing, and controlling the production of products from the acquisition of raw materials through the production and distribution of products to customers in a variety of process industries.

This program will provide the student with an understanding of process equipment and its principles of operation and control. The graduate will understand the technical aspects of the work, the responsibilities of the work and the importance of safety in this vitally important, shift-oriented position. The industries interested in the graduates from the program include, but are not limited to, oil exploration and production, mining and mineral processing, petroleum product manufacturing, advanced manufacturing, pharmaceutical production, food and beverage, electric power generation, drinking water treatment, and wastewater treatment.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written and electronic forms that are needed for entry level employment. (Communication Fluency)
2. Apply mathematical and applied physics concepts for industry to meet employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences and technical careers. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of technical skills. (Specialized Knowledge)
5. Perform the necessary applied skill sets to fulfill the needs of entry level employment. (Applied Learning)
6. Demonstrate ethical, civic and work place responsibility as part of professional behavior. (Specialized Knowledge)

Institutional Certificate Requirements
The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.
• Consists of 100-200 level courses.
• At least fifty percent of the credit hours must be taken at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A grade lower than “C” will not be counted toward meeting the requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.
Program Specific Certificate Requirements

(16 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROS 100</td>
<td>Introduction to Process Technology</td>
<td>3</td>
</tr>
<tr>
<td>PROS 110</td>
<td>Safety, Health and Environment (not currently offered)</td>
<td>3</td>
</tr>
<tr>
<td>PROS 117</td>
<td>Electronics I</td>
<td>3</td>
</tr>
<tr>
<td>PROS 120</td>
<td>Process Technology I: Equipment</td>
<td>4</td>
</tr>
<tr>
<td>PROS 130</td>
<td>Instrumentation (not currently offered)</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

1. Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
2. Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
3. Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
4. Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
• A grade lower than "C" will not be counted toward meeting the requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(16 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROS 117</td>
<td>Electronics I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Technical Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>TECI 132</td>
<td>Introduction to IT Hardware and System Software</td>
<td>3</td>
</tr>
<tr>
<td>PROS 118</td>
<td>Electronics 2</td>
<td>3</td>
</tr>
<tr>
<td>PROS 130</td>
<td>Instrumentation (not currently offered)</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>16</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
PSYCHOLOGY

Program Description
The psychology program provides students with a working knowledge of the methods and findings of modern psychology. Students may pursue the Bachelor of Arts (BA) in Psychology or the BA in Psychology with a concentration in counseling psychology. All majors are required to complete some laboratory coursework in which they conduct psychological science research. Internships are required for counseling students and are available at nearby human service agencies and treatment centers. Students majoring in psychology are prepared to work in a wide variety of settings, including human services (counseling and social work), public affairs, business, sales, criminal justice and (following graduate study) psychotherapy, teaching and research. The psychology program provides a strong foundation for graduate study in psychology and related disciplines.

The psychology program sponsors the Psychology Club and a local chapter of the national honor society in psychology, Psi Chi. Through active membership in these organizations, students are encouraged to become involved in community service and to attend and present their research at regional and national conferences.

A minor in psychology requires the student to acquire working knowledge of the methods and findings of modern psychology. To earn the minor, a student must take the research methods course, along with several topical courses in psychology. A student with this minor will have a deeper understanding of the processes that shape behavior, which can then be applied to a wide variety of areas.

A minor in forensic investigation—psychology provides students a base in forensic psychology. Students may be better prepared to enter graduate programs in forensic psychology. Students will be better prepared to use psychological concepts in criminal justice investigation jobs.

Contact Information
Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Bachelors/Minors
- Counseling Psychology, Psychology (BA) (p. 630)
- Forensic Investigation - Psychology (Minor) (p. 636)
- Psychology (BA) (p. 633)
- Psychology (Minor) (p. 636)

Counseling Psychology, Psychology (BA)
Degree: Bachelor of Arts
Major: Psychology
Concentration: Counseling Psychology
Program Code: 3724

About This Major . . .
Students may pursue the Psychology B.A. degree or the Psychology B.A. degree with a concentration in Counseling Psychology. All majors are required to complete some laboratory coursework in which they conduct research in psychological science. Practica are required for counseling students and are available at nearby human service agencies and treatment centers. The psychology programs provide students with a working knowledge of the methods and findings of modern psychology. Students majoring in psychology are prepared to work in a wide variety of settings, including human services (counseling and social work), public affairs, business, sales, criminal justice, and (following graduate study) psychotherapy, teaching and research. The psychology program provides a strong foundation for graduate study in psychology and related disciplines.

Many of CMU’s psychology majors have successfully continued their education in graduate programs in psychology. A few have continued on to medical school or law school. The psychology program sponsors a Psychology Club and a local chapter of the national honor society in psychology, Psi Chi. Through active membership in these organizations, students are encouraged to become involved in community service and to attend and present their research at regional and national conferences.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Critically analyze the historical trends in psychology (Specialized Knowledge)
2. Compare basic research methodology in psychology, including research design, data analysis and interpretation (Applied Learning)
3. Communicate clearly in written and oral presentations in standard American Psychological Association format (Broad Integrative Knowledge /Applied Learning)
4. Apply statistical concepts to decision making and problem solving in areas of psychological application (Quantitative Fluency)
5. Think critically to solve problems in psychological areas of analysis using academic sources of information. (Critical)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a
baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.

- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 201</td>
<td>Orientation to the Psychology Major</td>
<td>3</td>
</tr>
<tr>
<td>STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 216</td>
<td>Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 216L</td>
<td>Research Methods in Psychology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 414</td>
<td>History of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 416</td>
<td>Memory And Cognition</td>
<td>3</td>
</tr>
</tbody>
</table>

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 370</td>
<td>Cross-Cultural Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

### Foundation Courses

(6 semester hours, must earn a grade of "C" or higher in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Program Specific Degree Requirements

(51 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area. Additionally, to continue in the program and eventually graduate as a psychology major, a student must earn, with no more than three attempts, at least a grade of "C" in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 201</td>
<td>Orientation to the Psychology Major</td>
<td>3</td>
</tr>
<tr>
<td>STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 216</td>
<td>Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 216L</td>
<td>Research Methods in Psychology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 414</td>
<td>History of Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 416</td>
<td>Memory And Cognition</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 320</td>
<td>Social Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 340</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 400</td>
<td>Psychological Testing</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 420</td>
<td>Personality</td>
<td>3</td>
</tr>
<tr>
<td>PSYP 320</td>
<td>Career Development</td>
<td>3</td>
</tr>
<tr>
<td>PSYP 420</td>
<td>Counseling Processes and Techniques</td>
<td>3</td>
</tr>
<tr>
<td>PSYP 422</td>
<td>Psychological Interviewing</td>
<td>3</td>
</tr>
<tr>
<td>PSYP 424</td>
<td>Group Processes</td>
<td>3</td>
</tr>
<tr>
<td>PSYP 497</td>
<td>Practicum I</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 370</td>
<td>Cross-Cultural Psychology</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 51

### General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 26 semester hours
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Natural Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Semester Credit Hours</td>
<td>13</td>
</tr>
</tbody>
</table>

**Spring Semester**

| ENGL 112 | English Composition-GTCO2 | 3 |
| Essential Learning - History | | 3 |
| MATH 110 | College Mathematics-GTMA1 (or higher) | 3 |
| | Semester Credit Hours | 13 |

**Second Year**

<table>
<thead>
<tr>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 201</td>
</tr>
<tr>
<td>Foundation Course - Foreign Language</td>
</tr>
<tr>
<td>Essential Learning - Social/Behavioral Science</td>
</tr>
<tr>
<td>Essential Learning - Social/Behavioral Science</td>
</tr>
<tr>
<td>STAT 215</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
</tr>
<tr>
<td>ESSL 200</td>
</tr>
<tr>
<td>Essential Learning - Natural Science with Lab</td>
</tr>
<tr>
<td>Foundation Course - Foreign Language</td>
</tr>
<tr>
<td>PSYC 216</td>
</tr>
<tr>
<td>PSYC 216L</td>
</tr>
<tr>
<td>General Elective</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Third Year**

<table>
<thead>
<tr>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYP 320</td>
</tr>
<tr>
<td>PSYC 320</td>
</tr>
<tr>
<td>General Electives</td>
</tr>
<tr>
<td>PSYC 370</td>
</tr>
<tr>
<td>or PSYP 322</td>
</tr>
<tr>
<td>PSYC 340</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Electives (2 courses)</td>
</tr>
<tr>
<td>PSYP 420</td>
</tr>
<tr>
<td>PSYC 416</td>
</tr>
<tr>
<td>PSYC 414</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Fourth Year**

<table>
<thead>
<tr>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYP 424</td>
</tr>
<tr>
<td>PSYC 400</td>
</tr>
<tr>
<td>General Electives (3 courses)</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 420</td>
</tr>
<tr>
<td>PSYP 422</td>
</tr>
<tr>
<td>PSYP 497</td>
</tr>
<tr>
<td>General Electives (2 courses)</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).
DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Psychology (BA)

Degree: Bachelor of Arts
Major: Psychology
Program Code: 3726

About This Major . . .

Students may pursue the Psychology B.A. degree or the Psychology B.A. degree with a concentration in Counseling Psychology. All majors are required to complete some laboratory coursework in which they conduct psychological science research. Practica are required for counseling students and are available at nearby human service agencies and treatment centers. The psychology programs provide students with a working knowledge of the methods and findings of modern psychology.

Students majoring in psychology are prepared to work in a wide variety of settings, including human services (counseling and social work), public affairs, business, sales, criminal justice, and (following graduate study) psychotherapy, teaching and research. The psychology program provides a strong foundation for graduate study in psychology and related disciplines.

The psychology program sponsors a Psychology Club and a local chapter of the national honor society in psychology, Psi Chi. Through active membership in these organizations, students are encouraged to become involved in community service and to attend and present their research at regional and national conferences.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Critically analyze the historical trends in psychology (Specialized Knowledge)
2. Compare basic research methodology in psychology, including research design, data analysis and interpretation (Applied Learning)
3. Communicate clearly in written and oral presentations in standard American Psychological Association format (APA) (Broad Integrative Knowledge/Applied Learning)
4. Apply statistical concepts to decision making and problem solving in areas of psychological application (Quantitative Fluency)
5. Think critically to solve problems in psychological areas of analysis using academic sources of information. (Intellectual Skills)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/ certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Psychology (BA)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>English 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111 English Composition-GTCO1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENGL 112 English Composition-GTCO2</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Mathematics 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 110 College Mathematics-GTMA1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one History course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Humanities course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Fine Arts course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Natural Sciences 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>31</td>
<td></td>
</tr>
</tbody>
</table>

1. Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2. One course must include a lab.

### Program Specific Degree Requirements

(53 semester hours, must maintain a 2.00 cumulative GPA or higher in coursework in this area. To continue in the program and eventually graduate as a psychology major a student must earn, with no more than three attempts, at least a grade of “C” in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Psychology Core</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 150 General Psychology-GTSS3</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSYC 201 Orientation to the Psychology Major</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>STAT 215 Statistics for Social and Behavioral Sciences</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>PSYC 216 Research Methods in Psychology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSYC 216L Research Methods in Psychology Laboratory</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>PSYC 414 History of Psychology</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSYC 416 Memory And Cognition</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Psychology Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Developmental Area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSYC 310 Child Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 330 Psychology of Adolescents and Emerging Adulthood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 350 Psychology Of Adulthood</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 408 Foundations of School Counseling</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Personality/Social Area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSYC 320 Social Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 401 Sport Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 412 Industrial and Organizational Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 420 Personality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 435 Applied Social Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diversity Area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSYC 335 Psychology of Women</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 370 Cross-Cultural Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 411 Human Sexuality</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 425 Forensic Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Health and Wellness Area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSYC 300 Health Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 340 Abnormal Psychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 410 Drugs and Human Behavior</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOCI 410 Death, Dying &amp; Bereavement</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Behavioral Neuroscience Area</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one of the following:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>PSYC 314 Psychology Of Learning</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 422 Sensation and Perception</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSYC 430 Biopsychology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select eighteen credits of additional psychology electives from any of the content areas above or from the following list:</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>PSYP 305 Suicide Intervention Training</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Wellness Requirement</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINE 100 Health and Wellness</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Select one Activity course</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Essential Learning Capstone 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESSL 290 Maverick Milestone</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ESSL 200 Essential Speech</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Foundation Courses

(6 semester hours. Must earn a grade of “C” or higher in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two consecutive classes in the same foreign language 1</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

1. FLAS 114 & FLAS 115 will not fulfill this requirement.
PSYP 306  Applied Ethics in Mental Health and Counseling
PSYC 400  Psychological Testing
PSYC 395/495  Independent Study
PSYC 396/496  Topics
PSYC 499  Internship
SOCI 390  GRE Preparation
SOCI 497  Structured Research

Total Semester Credit Hours 53

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 24 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
<td>24</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>24</td>
</tr>
</tbody>
</table>

### First Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Social/Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Natural Science with Lab</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
</tbody>
</table>
| Spring Semester | Semester Credit Hours | 16
| ENGL 112   | English Composition-GTCO2                 | 3                     |
| Essential Learning - Natural Science          |                          | 3                     |
| MATH 110   | College Mathematics-GTMA1 (or higher)     | 3                     |
| Essential Learning - History                 |                          | 3                     |
| KINE 100   | Health and Wellness                       | 1                     |
| Essential Learning - Fine Arts               |                          | 3                     |
| **Semester Credit Hours**                    |                          | 16                    |

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Course - Foreign Language</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PSYC 201</td>
<td>Orientation to the Psychology Major</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Social/Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td></td>
</tr>
<tr>
<td>KINE Activity</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td><strong>Semester Credit Hours</strong></td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

### Second Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Foundation Course - Foreign Language</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>PSYC 216</td>
<td>Research Methods in Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 216L</td>
<td>Research Methods in Psychology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td><strong>Semester Credit Hours</strong></td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Third Year</td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>PSYC 416</td>
<td>Memory And Cognition</td>
<td>3</td>
</tr>
<tr>
<td><strong>General Electives</strong></td>
<td></td>
<td>2</td>
</tr>
</tbody>
</table>

### Upper Division Psychology Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
</table>
| Spring Semester | Upper Division Psychology Electives (3 courses) | 9
| General Electives | (2 courses)                       | 6
| **Semester Credit Hours**                     |                          | 15                    |

**Fourth Year**

**Fall Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
</table>
| Spring Semester | Upper Division Psychology Electives (3 courses) | 9
| General Electives | (2 courses)                       | 6
| **Semester Credit Hours**                     |                          | 15                    |

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

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### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
Forensic Investigation - Psychology (Minor)

Minor: Forensic Investigation - Psychology
Program Code: M716

About This Minor . . .
This minor combines courses in psychology with forensic investigation courses. It provides a student a base in forensic psychology. Students may be better prepared to enter graduate programs in forensic psychology. Students may also be better prepared to use psychological concepts in criminal justice and investigative jobs.

Institutional Minor Requirements
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department head to determine which catalog year and program requirements sheet you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements
(22 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 202</td>
<td>APA Style of Writing for Psychology Minors</td>
<td>1</td>
</tr>
<tr>
<td>FOAN 232</td>
<td>Survey of Forensic Science</td>
<td>2</td>
</tr>
<tr>
<td>FOAN 232L</td>
<td>Survey of Forensic Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>FOAN 280</td>
<td>Crime Scene Processing</td>
<td>2</td>
</tr>
<tr>
<td>FOAN 280L</td>
<td>Crime Scene Processing Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 425</td>
<td>Forensic Psychology</td>
<td>3</td>
</tr>
<tr>
<td>FOAN 480</td>
<td>Professional Issues in Forensic Science</td>
<td>3</td>
</tr>
<tr>
<td>Select 9 semester hours of the following:</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>PSYC 340</td>
<td>Abnormal Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 400</td>
<td>Psychological Testing</td>
<td></td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Psychology (Minor)
Minor: Psychology
Program Code: M740

About This Minor . . .
A minor in Psychology requires the student to acquire working knowledge of the methods and findings of modern psychology. To earn the minor, a student must take the research methods course, along with several topical courses in psychology. A student with this minor will have a deeper understanding of the processes that shape behavior, which can then be applied to a wide variety of areas.

Institutional Minor Requirements
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
• A student may earn up to five minors with any baccalaureate degree at CMU.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Minor Requirements**

(22 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 202</td>
<td>APA Style of Writing for Psychology Minors</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 416</td>
<td>Memory And Cognition</td>
<td>3</td>
</tr>
</tbody>
</table>

**Developmental Area**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 310</td>
<td>Child Psychology</td>
</tr>
<tr>
<td>PSYC 330</td>
<td>Psychology of Adolescents and Emerging Adulthood</td>
</tr>
<tr>
<td>PSYC 350</td>
<td>Psychology Of Adulthood</td>
</tr>
</tbody>
</table>

**Personality/Social Area**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 320</td>
<td>Social Psychology</td>
</tr>
<tr>
<td>PSYC 370</td>
<td>Cross-Cultural Psychology</td>
</tr>
<tr>
<td>PSYC 401</td>
<td>Sport Psychology</td>
</tr>
<tr>
<td>PSYC 411</td>
<td>Human Sexuality</td>
</tr>
<tr>
<td>PSYC 420</td>
<td>Personality</td>
</tr>
<tr>
<td>PSYC 435</td>
<td>Applied Social Psychology</td>
</tr>
</tbody>
</table>

**Neuropsychology Area**

Select one of the following: 3

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 410</td>
<td>Drugs and Human Behavior</td>
</tr>
<tr>
<td>PSYC 422</td>
<td>Sensation and Perception</td>
</tr>
<tr>
<td>PSYC 430</td>
<td>Biopsychology</td>
</tr>
</tbody>
</table>

Select 6 semester hours of Upper Division PSYC - Psychology courses 6

Total Semester Credit Hours 22

**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.
PUBLIC ADMINISTRATION/ PUBLIC SAFETY

Program Description
This program is currently inactive, and no new applicants are being considered.

The Bachelor of Applied Science (BAS) in Public Administration/Public Safety combines the technical skills required of first responders with the management training necessary for success in areas related to public safety. A unique program, the BAS allows students who have already earned an Associate of Applied Science degree or have completed a federal or state certified training program in law enforcement, fire sciences, emergency medical services or related fields to build on their technical specialties with essential learning courses and junior and senior level management classes. Depending on their previous education, students should be able to complete the BAS degree within four additional full-time semesters.

BAS students will be technically and academically prepared for leadership positions in their chosen fields. This degree will assist students in their upward mobility in their area of employment as they move into supervisory positions.

Contact Information
Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Bachelors/Minors
The following program is inactive and not accepting applicants:

• Public Administration/Public Safety (BAS)
PUBLIC HISTORY

(See History (p. 454))
PUBLIC SAFETY DIVING

Program Description
This certificate provides entry-level skills required for public safety diving. Instruction includes basic open water scuba skills, dry suit and full face mask skills, line tending, drowning investigations, operational duties, safety and responsible diving practices. Students gain valuable skills for searching, collecting, preserving and processing underwater crime scene evidence. Students will be required to work in low visibility and potentially high entanglement environments. Career options include positions as investigators, sub-surface crime scene specialists, forensic investigators, police divers, team training officers, safety officers, water operations supervisors, and forensic researchers.

Public Safety Diving (Technical Certificate)

Degree: Technical Certificate
Program of Study: Public Safety Diving
Program Code: 1362

About This Major . . .

This program is currently inactive, and no new applicants are being considered.

This certificate is designed to provide the student with entry-level skills required for Public Safety Diving. Students will learn the fundamentals of basic open water scuba skills, dry suit and full face mask skills are emphasized. Instruction includes basic open water scuba skills, dry suit and full face mask, line tending, drowning investigations, operational duties, safety, and responsible diving practices. Students gain valuable skills for searching, collecting, preserving, and processing underwater crime scene evidence. Students will be required to work in low visibility and entanglement environments. Career options with this certificate include positions as investigators, sub-surface crime scene specialists, forensic investigators, police divers, team training officers, safety officers, water operations supervisors, and forensic researchers.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate proficient communication and writing skills that are formal and professional in nature. (Communication Fluency)
2. Demonstrate and apply mathematical concepts required of public safety diving professionals. (Qualitative Fluency)
3. Demonstrate specialized knowledge of public safety diving practices, principles and investigative procedures. (Specialized Knowledge)
4. Demonstrate proficiency in basic skills required for entry level public safety diving professionals. (Applied Learning)

Institutional Certificate Requirements
The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(8 semester hours)

- Additional expenses – Students entering the Phase 1 Course may be required to purchase Public Safety Dive equipment with total cost of approximately $1750.00. This is in addition to tuition and fees. Additional travel expenses apply. These costs may vary with student need and brand or quality of equipment purchased. Please see program coordinator for additional details.
- The Homicidal Drowning Investigations Course has an additional charge of $249.00. This is in addition to tuition and fees. Please see program coordinator for additional details.
- The Rapid Diver Deployment (UWCSI) Course has an additional charge of $395 per student. This is in addition to tuition and fees. Please see program coordinator for additional details.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRJW 270</td>
<td>Homicidal Drowning Investigations</td>
<td>2</td>
</tr>
<tr>
<td>CRJW 280</td>
<td>Public Safety Diving Phase 1</td>
<td>4</td>
</tr>
<tr>
<td>CRJW 290</td>
<td>Underwater CSI</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>8</td>
</tr>
</tbody>
</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
Program Descriptions
The Bachelor of Science in Radiologic Sciences and the Bachelor of Applied Science in Radiologic Science programs at Colorado Mesa University prepare individuals for certification and professional practice in the Radiologic Sciences. Radiologic technologists are an important part of the professional health care team, providing physicians with medical images that are vital for the diagnosis and treatment of injury, degeneration and disease.

Bachelor of Science in Radiologic Sciences
The four-year Bachelor of Science program provides educational experiences to prepare a professional radiologic technologist to practice in a variety of health care settings. After meeting ARRT ethics, education and clinical competency requirements, graduates are eligible to take the certifying examination from the American Registry of Radiologic Technologists. The program integrates theory, practice, and science with a broad liberal arts education. The program is designed to deliver quality education in both the classroom and clinical settings.

Bachelor of Applied Science in Radiologic Sciences
The Bachelor of Applied Sciences (BAS) in Radiologic Science provides certified radiologic technologists the opportunity to obtain a bachelor degree and to advance in specialty areas in the field of radiologic technology including magnetic resonance imaging or computed tomography. After meeting ARRT ethics, structured education and clinical competency requirements, graduates are eligible to take the appropriate certifying examination from the American Registry of Radiologic Technologists. This can lead to greater employment opportunities, increased compensation and job security. The program is designed to deliver quality education through online, distance education in the didactic and clinical arena.

Professional Certificates in Radiologic Sciences
The Radiologic Sciences program offers certified radiologic technologists with an associate degree the opportunity for post-primary certification in magnetic resonance imaging or computed tomography. After meeting ARRT ethics, structured education, and clinical competency requirements, graduates are eligible to take the appropriate certifying examination from the American Registry of Radiologic Technologists. This can lead to greater employment opportunities, increased compensation, and job security. All coursework is in an online format.

Special Requirements
Students applying to the radiologic technology program must submit additional material. Students applying for admission into the program must be admitted into the general University. Admission to Colorado Mesa University does not guarantee admission into the radiologic sciences programs, which require a separate application. Please contact the health sciences department for additional information.

Contact Information
Department of Health Sciences
Health Sciences 101
970.248.1398

Bachelors/Minors
- Radiologic Sciences (BAS) (p. 644)
- Radiologic Sciences (BSRS) (p. 646)

Certificates
- Computed Tomography (Professional Certificate) (p. 642)
- Magnetic Resonance Imaging (Professional Certificate) (p. 643)

Computed Tomography (Professional Certificate)
Degree: Professional Certificate
Program of Study: Computed Tomography
Program Code: 1605

About This Major . . .
The Professional Certificate in Computed Tomography is designed to prepare certified and registered radiologic technologists for post-primary certification and registration with the American Registry of Radiologic Technologists (ARRT) in computed tomography. Students must be registered with the ARRT in radiography, nuclear medicine technology (NMTCB also accepted) or radiation therapy and hold the minimum of an associate degree. Coursework from the certificate can be applied to the Bachelor of Applied Science in Radiologic Sciences.

All CMU professional certificate recipients are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning.

Upon completion of this program, students will be able to:

1. Combine academic theory with practitioner experience and skills (applied learning).
2. Develop critical thinking and problem solving skills that demonstrate a professional level of expertise in the radiologic sciences (critical thinking).
3. Promote value based behaviors for professional practice (critical thinking).

Institutional Certificate Requirements
The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Primarily 300-400 level courses.
- At least fifty percent of the credit hours must be taken at CMU.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with
your advisor or academic department to determine which catalog year and program requirements you should follow.

• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Certificate Requirements**

(16 semester hours, a grade of “C” or better is required in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADS 452</td>
<td>Sectional Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>RADS 461</td>
<td>Principles of Computed Tomography</td>
<td>2</td>
</tr>
<tr>
<td>RADS 471</td>
<td>Applied Computed Tomography</td>
<td>3</td>
</tr>
<tr>
<td>RADS 480</td>
<td>Clinical Specialization I</td>
<td>4</td>
</tr>
<tr>
<td>RADS 490</td>
<td>Clinical Specialization II</td>
<td>4</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
<td><strong>16</strong></td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Course</th>
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</tr>
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<tbody>
<tr>
<td><strong>First Year</strong></td>
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</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RADS 461</td>
<td>Principles of Computed Tomography</td>
<td>2</td>
</tr>
<tr>
<td>RADS 480</td>
<td>Clinical Specialization I</td>
<td>4</td>
</tr>
<tr>
<td><strong>Semester Credit Hours</strong></td>
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</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
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<tr>
<td>RADS 452</td>
<td>Sectional Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>RADS 471</td>
<td>Applied Computed Tomography</td>
<td>3</td>
</tr>
<tr>
<td>RADS 490</td>
<td>Clinical Specialization II</td>
<td>4</td>
</tr>
<tr>
<td><strong>Semester Credit Hours</strong></td>
<td></td>
<td><strong>10</strong></td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
<td><strong>16</strong></td>
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</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.

• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.

• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.

• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

**Magnetic Resonance Imaging (Professional Certificate)**

Degree: Professional Certificate
Program of Study: Magnetic Resonance Imaging
Program Code: 1606

**About This Major . . .**

The Professional Certificate in Magnetic Resonance Imaging is designed to prepare certified and registered radiologic technologists for post-primary certification and registration with the American Registry of Radiologic Technologists (ARRT) in magnetic resonance imaging. Students must be certified and registered with the ARRT in radiography, nuclear medicine technology (NMTCB also accepted), radiation therapy, or sonography (ARDMS also accepted) and hold the minimum of an associate degree. Coursework from the certificate can be applied to the Bachelor of Applied Science in Radiologic Sciences.

All CMU professional certificate recipients are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning.

Upon completion of this program, students will be able to:

1. Combine academic theory with practitioner experience and skills (applied learning).

2. Develop critical thinking and problem solving skills that demonstrate a professional level of expertise in the radiologic sciences (critical thinking).

3. Promote value based behaviors for professional practice (critical thinking).

**Institutional Certificate Requirements**

The following institutional requirements apply to all CMU Professional Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

• Consists of 5-59 semester hours.

• Primarily 300-400 level courses.

• At least fifty percent of the credit hours must be taken at CMU.

• 2.00 cumulative GPA or higher in all CMU coursework.

• A course may only be used to fulfill one requirement for each degree/certificate.

• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(16 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADS 452</td>
<td>Sectional Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>RADS 460</td>
<td>Principles of Magnetic Resonance Imaging</td>
<td>2</td>
</tr>
<tr>
<td>RADS 470</td>
<td>Applied Magnetic Resonance Imaging</td>
<td>3</td>
</tr>
<tr>
<td>RADS 480</td>
<td>Clinical Specialization I</td>
<td>4</td>
</tr>
<tr>
<td>RADS 490</td>
<td>Clinical Specialization II</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 16

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.

Radiologic Sciences (BAS)
Degree: Bachelor of Applied Science
Major: Radiologic Sciences
Program Code: 3622

About This Major . . .

The Bachelor of Applied Science in Radiologic Sciences combines the technical skills and patient care skills necessary for success in today’s health care arena. A unique program, the BAS allows students who have already earned an associate of applied science degree to build upon their technical specialties with Essential Learning courses and junior and senior level radiologic science courses. This allows associate degree holders to gain a 4-year degree in approximately four additional full-time semesters, depending upon prior coursework.

Courses to be taken include advanced patient care, quality management, informatics in radiology, research and areas of specialization such as computed tomography, and magnetic resonance imaging. Upon completion of the program, students will be technically and academically prepared for leadership positions in their chosen specialties.

Prospective students not holding an associate of applied science degree can begin their college career at CMU in a chosen field of study with a 2-year degree and then progress to a 4-year degree using the BAS. This degree will provide students upward mobility in their area of employment as they move into specialty areas as well as supervision/management positions.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

Important information for this program:

• Formal admission to a BAS program requires completion of the appropriate AAS degree from an accredited institution. Any exceptions to this must be approved in advance by the department BAS advisor and the academic department head. All students must meet with the BAS advisor to plan and schedule all classes.
• Applicants must be certified by the American Registry of Radiologic Technologists or its equivalent to be admitted to the program.

• Program applicants must possess an A.A.S degree in Radiologic Technology or Radiologic Science. Acceptance of A.A.S. radiologic technology credits will be limited to no more than 36 hours unless approved by both the B.A.S. advisor and the academic department head.

• Applicants possessing a certificate of completion from a JRCERT accredited program in Radiologic Technology may also be admitted conditionally to the program while completing the requirements for an AAS degree. Please see the Radiologic Science Program Director for complete requirements and application form.

• All degree requirements must be completed as described. Any exceptions or substitutions must be recommended in advance by the faculty advisor and approved by the Department Head. Students are required to participate in exit examinations or other programs deemed necessary to comply with the university accountability requirement.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Relate ethical principles to real-life problems in the radiologic sciences. (Specialized Knowledge)
2. Combine academic theory with practitioner experience and skills. (Applied Learning)
3. Apply quantitative analysis methods to develop appropriate conclusions (Quantitative Fluency)
4. Communicate effectively through written documents. (Communication)
5. Develop critical thinking and problem solving skills that demonstrate a professional level of expertise in advanced specialty areas in the radiologic sciences. (Critical Thinking)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU Bachelor of Applied Science (BAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 33 upper-division credits.
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.

- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements. The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:
- 121 semester hours required for the BAS in Radiologic Sciences.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<td>ENGL 111</td>
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</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences 2</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences 2</td>
<td>Select one Natural Sciences course with a lab</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 31

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
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</table>

Wellness Requirement

<table>
<thead>
<tr>
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<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td>1</td>
<td></td>
</tr>
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</table>

Essential Learning Capstone 1
Radiologic Sciences (BSRS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

**Foundation Courses**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 210L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>15</td>
</tr>
</tbody>
</table>

**Program Specific Degree Requirements**

(25 semester hours, must maintain a 2.00 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Core Courses</strong></td>
<td></td>
</tr>
<tr>
<td>RADS 452</td>
<td>Sectional Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>RADS 453</td>
<td>Advanced Patient Care</td>
<td>3</td>
</tr>
<tr>
<td>RADS 462</td>
<td>Leadership and Management</td>
<td>3</td>
</tr>
<tr>
<td>RADS 463</td>
<td>Information Literacy in Radiologic Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Specialization</strong></td>
<td></td>
</tr>
<tr>
<td>Select one of the following options:</td>
<td></td>
<td>5</td>
</tr>
<tr>
<td>RADS 460</td>
<td>Principles of Magnetic Resonance Imaging</td>
<td></td>
</tr>
<tr>
<td>&amp; RADS 470</td>
<td>and Applied Magnetic Resonance Imaging</td>
<td></td>
</tr>
<tr>
<td>RADS 461</td>
<td>Principles of Computed Tomography</td>
<td></td>
</tr>
<tr>
<td>&amp; RADS 471</td>
<td>and Applied Computed Tomography</td>
<td></td>
</tr>
<tr>
<td>RADS 480</td>
<td>Clinical Specialization I</td>
<td>4</td>
</tr>
<tr>
<td>RADS 490</td>
<td>Clinical Specialization II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Bachelor of Applied Science Core</strong></td>
<td></td>
</tr>
<tr>
<td>36 Semester Hours taken as part of a state approved Associate of</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Applied Science degree</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>61</td>
</tr>
</tbody>
</table>

**General Electives**

All college level courses appearing on final transcript, not listed above to bring total to 121 semester hours, including 33 upper division semester hours. 8 upper division semester hours required.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
<td>Hours vary as needed</td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfil the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audits on a regular basis and should discuss questions or concerns with their advisors or academic department heads. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Radiologic Sciences (BSRS)**

Degree: Bachelor of Radiologic Science
Major: Radiologic Sciences
Program Code: 3623

**About This Major . . .**

The Baccalaureate of Science in Radiologic Sciences (BSRS) Program is accredited based by the Joint Review Committee on Education in Radiologic Technology (JRCERT). The four-year program provides educational experiences to prepare a professional radiologic technologist to practice in a variety of health care settings. The program integrates theory, practice, and science with a broad liberal arts education. Following successful completion of the Radiologic Sciences Program and after meeting ethics and examination requirements, the graduate is
eligible to sit for the national certification examination administered by the American Registry of Radiologic Technologists. A passing score on this examination results in the granting of a certificate of registration that allows the privilege to use the title "Registered Technologist" and to use the abbreviation R.T. following the graduate’s name.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate written communication skills (communication).
2. Assess oral communication techniques used in professional practice (communication).
3. Relate ethical principles to real-life problems in the radiologic sciences (specialized knowledge).
4. Combine academic theory with practitioner experience and skills (applied learning).
5. Demonstrate skills to reason and solve quantitative problems in the radiologic sciences (quantitative fluency).
6. Develop critical thinking and problem solving skills that demonstrate a professional level of expertise in the radiologic sciences (critical thinking).
7. Promote value based behaviors for professional practice (critical thinking).

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>Mathematics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one History course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Humanities course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Fine Arts course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Natural Sciences course with a lab</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>31</td>
</tr>
</tbody>
</table>

1. Must receive a grade of "C" or better and must be complete by the time the student has 60 semester hours.
2. This is a 4 credit course. 3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.
3. PSYC 150 and PSYC 233 are recommended.
4. 7 semester hours, one course must include a lab.
5. BIOL 101 and BIOL 101L are recommended.

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>Essential Learning Capstone</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>
Foundation Courses
(15-16 semester hours, must earn a grade of "C" or higher in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 210L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3-4</td>
</tr>
<tr>
<td>or STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td></td>
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</tbody>
</table>

Total Semester Credit Hours 15-16

Program Specific Degree Requirements
(65 semester hours, must earn a grade of "C" or higher in each course.)

Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADS 320</td>
<td>Introduction to Radiologic Technology and Patient Care</td>
<td>3</td>
</tr>
<tr>
<td>RADS 320L</td>
<td>Introduction to Radiologic Technology and Patient Care Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>RADS 321</td>
<td>Radiographic Anatomy and Positioning I</td>
<td>2</td>
</tr>
<tr>
<td>RADS 321L</td>
<td>Radiographic Anatomy and Positioning I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>RADS 322</td>
<td>Principles of Radiographic Exposure</td>
<td>2</td>
</tr>
<tr>
<td>RADS 322L</td>
<td>Principles of Radiographic Exposure Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>RADS 323</td>
<td>Digital Imaging</td>
<td>2</td>
</tr>
<tr>
<td>RADS 331</td>
<td>Radiographic Anatomy and Positioning II</td>
<td>2</td>
</tr>
<tr>
<td>RADS 331L</td>
<td>Radiographic Anatomy and Positioning II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>RADS 332</td>
<td>Specialized Imaging</td>
<td>2</td>
</tr>
<tr>
<td>RADS 333</td>
<td>Imaging Equipment and Quality Assurance</td>
<td>2</td>
</tr>
<tr>
<td>RADS 333L</td>
<td>Imaging Equipment and Quality Assurance Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>RADS 334</td>
<td>Image Analysis I</td>
<td>2</td>
</tr>
<tr>
<td>RADS 335</td>
<td>Radiation Biology and Protection</td>
<td>2</td>
</tr>
<tr>
<td>RADS 336</td>
<td>Image Analysis II</td>
<td>2</td>
</tr>
<tr>
<td>RADS 451</td>
<td>Imaging Pathology</td>
<td>3</td>
</tr>
<tr>
<td>RADS 452</td>
<td>Sectional Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>RADS 453</td>
<td>Advanced Patient Care</td>
<td>3</td>
</tr>
<tr>
<td>RADS 461</td>
<td>Principles of Computed Tomography</td>
<td>2</td>
</tr>
<tr>
<td>RADS 462</td>
<td>Leadership and Management</td>
<td>3</td>
</tr>
<tr>
<td>RADS 463</td>
<td>Information Literacy in Radiologic Sciences</td>
<td>3</td>
</tr>
<tr>
<td>RADS 464</td>
<td>Senior Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

Clinical Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADS 329</td>
<td>Radiographic Clinical Experience I</td>
<td>1</td>
</tr>
<tr>
<td>RADS 339</td>
<td>Radiographic Clinical Experience II</td>
<td>4</td>
</tr>
<tr>
<td>RADS 449</td>
<td>Radiographic Clinical Experience III</td>
<td>6</td>
</tr>
<tr>
<td>RADS 459</td>
<td>Radiographic Clinical Experience IV</td>
<td>5</td>
</tr>
</tbody>
</table>

RADS 469 | Radiographic Clinical Experience V                                   | 3                     |

Total Semester Credit Hours 65

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 3 semester hours

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td>Select additional electives</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 3

Course Title Semester Credit Hours

First Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 101</td>
<td>General Human Biology-GTSC1</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 101L</td>
<td>General Human Biology Laboratory-GTSC1</td>
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</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>4</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology&amp; 209L</td>
<td>4</td>
</tr>
<tr>
<td>&amp; 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td></td>
</tr>
</tbody>
</table>

Second Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Natural Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BIOL 210 &amp; 210L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td></td>
</tr>
<tr>
<td>KINA Activity</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 241</td>
<td>Pathophysiology</td>
<td>4</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1 or Statistics for Social and Behavioral Sciences</td>
<td>3-4</td>
</tr>
</tbody>
</table>

General Elective

<table>
<thead>
<tr>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
</tr>
</tbody>
</table>

Third Year

Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADS 320 &amp; 320L</td>
<td>Introduction to Radiologic Technology and Patient Care Laboratory</td>
<td></td>
</tr>
<tr>
<td>RADS 321 &amp; 321L</td>
<td>Radiographic Anatomy and Positioning I Laboratory</td>
<td></td>
</tr>
<tr>
<td>RADS 322 &amp; 322L</td>
<td>Principles of Radiographic Exposure Laboratory</td>
<td></td>
</tr>
<tr>
<td>RADS 323</td>
<td>Digital Imaging</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>2</td>
</tr>
</tbody>
</table>
Radiographic Clinical Experience I  1  
Semester Credit Hours  13

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADS 331</td>
<td>Radiographic Anatomy and Positioning II</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 331L</td>
<td>and Radiographic Anatomy and Positioning II Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>RADS 332</td>
<td>Specialized Imaging</td>
<td>2</td>
</tr>
<tr>
<td>RADS 333</td>
<td>Imaging Equipment and Quality Assurance</td>
<td>3</td>
</tr>
<tr>
<td>&amp; 333L</td>
<td>and Imaging Equipment and Quality Assurance Laboratory</td>
<td>3</td>
</tr>
<tr>
<td>RADS 334</td>
<td>Image Analysis I</td>
<td>2</td>
</tr>
<tr>
<td>RADS 335</td>
<td>Radiation Biology and Protection</td>
<td>2</td>
</tr>
<tr>
<td>RADS 339</td>
<td>Radiographic Clinical Experience II</td>
<td>4</td>
</tr>
</tbody>
</table>

Semester Credit Hours  16

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADS 449</td>
<td>Radiographic Clinical Experience III</td>
<td>6</td>
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</table>

Semester Credit Hours  6

### Fourth Year

**Fall Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADS 354</td>
<td>Image Analysis II</td>
<td>2</td>
</tr>
<tr>
<td>RADS 451</td>
<td>Imaging Pathology</td>
<td>3</td>
</tr>
<tr>
<td>RADS 452</td>
<td>Sectional Anatomy</td>
<td>3</td>
</tr>
<tr>
<td>RADS 453</td>
<td>Advanced Patient Care</td>
<td>3</td>
</tr>
<tr>
<td>RADS 459</td>
<td>Radiographic Clinical Experience IV</td>
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</table>

Semester Credit Hours  16

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADS 461</td>
<td>Principles of Computed Tomography</td>
<td>2</td>
</tr>
<tr>
<td>RADS 462</td>
<td>Leadership and Management</td>
<td>3</td>
</tr>
<tr>
<td>RADS 463</td>
<td>Information Literacy in Radiologic Sciences</td>
<td>3</td>
</tr>
<tr>
<td>RADS 464</td>
<td>Senior Capstone</td>
<td>3</td>
</tr>
<tr>
<td>RADS 469</td>
<td>Radiographic Clinical Experience V</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester Credit Hours  14

Total Semester Credit Hours  120-121

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### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.

- Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
**SOCIAL SCIENCE**

**Program Description**
The Associate of Arts (AA) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The AA with an emphasis in social science is the appropriate choice for students who will take upper division coursework in the arts, humanities, or social and behavioral sciences. The degree program includes the Colorado Statewide General Education Core and meets the lower division general education requirements at institutions in Colorado. The social science emphasis provides students with the opportunity to develop a broad understanding of the various disciplines which traditionally constitute the social sciences: anthropology, history, political science, sociology, psychology, economics and geography.

**Contact Information**
Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

**Associates**
- Social Science, Liberal Arts (AA) (p. 650)

**Graduate**
- Social Science (Graduate Certificate) (p. 369)

**Social Science, Liberal Arts (AA)**
Degree: Associate of Arts
Major: Liberal Arts
Emphasis: Social Science
Program Code: 2710

**About This Major . . .**
The Associate of Arts (AA) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The AA is the appropriate choice for students who will take upper division coursework in the arts, humanities, or social and behavioral sciences. The degree program includes the Colorado Statewide General Education Core and meets the lower division general education requirements at most public institutions in Colorado.

The Social Science emphasis within the Liberal Arts major provides students with the opportunity to develop a broad understanding of the various disciplines which traditionally constitute the Social Sciences: Anthropology, History, Political Science, Sociology, Psychology, Economics, and Geography.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Analyze social science problems (Specialized Knowledge).
2. Communicate clearly in writing or oral presentations (Communication Fluency).
3. Think critically to solve problems in social science (Critical Thinking).
4. Use program level mathematical concepts to understand, analyze, and explain social science issues (Quantitative Fluency).

**Institutional Degree Requirements**
The following institutional degree requirements apply to all CMU or WCCC Associate of Arts (AA) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours total.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade of "C" or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado's guaranteed transfer program.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 15 semester credit hours for an AA degree. A maximum of 6 of the 15 credits may be for cooperative education, internships, and practice.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Select one Humanities course 3

Social and Behavioral Sciences
Select one Social and Behavioral Sciences course 3
Select one Social and Behavioral Sciences course 3

Fine Arts
Select one Fine Arts course 3

Natural Sciences
Select one Natural Sciences course 3
Select one Natural Sciences course with a lab 4

Total Semester Credit Hours 31

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wellness Requirement</td>
<td></td>
</tr>
<tr>
<td></td>
<td>KINE 100 Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>2</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements
(18 semester hours, must maintain a 2.00 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Minimum 18 semester hours chosen from one or more of the following areas: 18</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Anthropology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Archeology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Economics</td>
<td></td>
</tr>
<tr>
<td></td>
<td>History</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Geography</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Political Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Psychology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Criminal Justice</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Social Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sociology</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours 18</td>
<td></td>
</tr>
</tbody>
</table>

1 No double counting is allowed between Essential Learning and major requirements.

General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 60 hours. 9 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select electives</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>9</td>
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</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL 111 English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Humanities</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science with lab</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Social/Behavioral Science Emphasis Requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>KINE 100 Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours 17</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ENGL 112 English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social/Behavioral Science Emphasis Requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Wellness Requirement – KINA Activity Course</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours 16</td>
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</tr>
<tr>
<td></td>
<td>Second Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science without lab</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social/Behavioral Science Emphasis Requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours 15</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Social/Behavioral Science Emphasis Requirement</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>General Elective</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours 12</td>
<td></td>
</tr>
</tbody>
</table>

Students that intend to continue with Colorado Mesa University should take ESSL 290 and ESSL 200 during the final semester of their Associate of Arts work.

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

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should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

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SOCIAL WORK

Program Description
Social work is a profession dedicated to social and economic justice. Social workers focus primarily on the needs and empowerment of vulnerable, oppressed, at-risk populations, and those living in poverty.

The CMU BSW Program Mission is: “To educate students as generalist social work practitioners who embrace the mission and core values of the social work profession, including issues of diversity, service, the dignity and worth of all people, and social and economic justice.”

Program Goals
The Social Work program will:

- Educate students as generalist social work practitioners; with knowledge and understanding of the ecological perspective, the strengths perspective, the empowerment approach, and solid problem solving and case management skills.
- Assist students in viewing complex human and social issues from a multi-dimensional, multi-level approach involving micro-, mezzo-, and macro-level interventions.
- Provide opportunities for the application of the social work mission and core values of service, the dignity and worth of all people, the importance of human relationships, integrity, competency, and social and economic justice.
- Maintain high professional standards and knowledge of the NASW Code of Ethics.
- Help students strengthen the relationship between theory and practice by engaging them in various service learning projects, leadership development, strong field education placements, and involvement in the social work club.

Professional social workers are found in every facet of community life—in schools, hospitals, mental health clinics, senior centers, elected office, private practices, prisons, military, corporations, and in numerous public and private agencies that serve individuals and families in need.

Special Requirements
Admission to the University does not guarantee admission to the BSW program; a separate admission application to the BSW program is required, as discussed below.

Admission Requirements
Students must apply to get accepted into the Social Work Program. The application packet is completed during the spring semester of a student’s sophomore year. The application packet and admissions criteria includes:

- Completion of at least 60 credits of coursework before admission into the program (junior status).
- Maintenance of a minimum overall GPA of 2.0 and a minimum GPA of 2.5 in social work classes.
- Personal statement and essay that includes why you would like to choose social work as a major, extracurricular and volunteer activities, work experience, career goals and interests, and a commitment to the social work mission, core values, and the NASW Code of Ethics.¹
- Quality of written material (on application, personal statement, and essay).
- Faculty evaluations, as indicated by class attendance, participation, communication skills, and ability to work together with other classmates.
- Student will be notified in writing if they have been accepted into the social work program.
- If accepted into the program, students will be a part of a cohort program that will complete course work together in a sequential format, for their junior and senior years.
- Faculty interview.

¹ The social work program at CMU does not grant course credit for life experience or previous work experience.

The 15 credit-hour minor in Social Work can be combined with a major in any field. No application process is required for the minor. This minor will help equip students who desire to work in a human services field upon graduation. A minor in Social Work is also beneficial for any student hoping to gain admissions into a master’s degree in Social Work (MSW) program.

Contact Information
Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Bachelors/Minions
- Social Work (BSW) (p. 653)
- Social Work (Minor) (p. 656)

Social Work (BSW)
Degree: Bachelor of Social Work
Major: Social Work
Program Code: 3765

About This Major . . .
Social Work is a profession dedicated to social and economic justice. Social workers focus primarily on the needs and empowerment of vulnerable, oppressed, at-risk populations, and those living in poverty. Social workers help people overcome some of life’s most difficult challenges: poverty, discrimination, abuse, addiction, physical illness, divorce, educational problems, disability, and mental illness.

The practice of social work requires knowledge of human development and behavior; of social, economic, and cultural institutions, and of the interaction of all these factors as well as skills in developing relationships, assessing needs and services while facilitating change. Social workers seek to strengthen relationships among people to promote, restore, maintain, and enhance the well-being of individuals, families, social groups, organizations, and communities. (http://www.socialworkers.org/)

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates will be able to:
1. Demonstrate proficiency in utilizing the social work professions' core competencies and 31 practice behaviors through a senior-year practicum in a social service agency in our community (Specialized Knowledge).

2. Demonstrate the ability to use practice experience to inform scientific inquiry and use research evidence to inform practice (Quantitative Fluency).

3. Demonstrate effective oral and written communication in working with individuals, families, groups, organizations, communities and colleagues through professional documentation and oral presentations (Communication Fluency).

4. Demonstrate critical thinking to inform and communicate professional judgments through distinguishing, appraising, and integrating multiple sources of knowledge; and through analyzing models of assessment, prevention, intervention, and evaluation (Critical Thinking).

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>Two consecutive classes in the same foreign language</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Wellness Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Foundation Courses
(12 semester hours, must earn, with no more than two attempts, a “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 233</td>
<td>Human Growth and Development-GTSS3</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 12
FLAS 114 & FLAS 115 will not fulfill this requirement.

Program Specific Degree Requirements

(48 semester hours. To graduate with a major in social work, a student must earn, with no more than two attempts, at least a grade of "C" in each course and maintain a 2.50 cumulative GPA or higher in coursework in this area.)

- Students majoring in social work must apply to get into the social work program prior to taking any of the social work core courses. Application requirements include: completion of all Essential Learning requirements, completion of the two foundation courses (maintaining a 2.0 GPA), completion of the two social work introductory courses, completion of 60+ credits (junior standing), and a formal application, essay and faculty evaluation. If accepted into the social work program, students will take the social work core courses in sequence as part of a cohort system their junior and senior years.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 150</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 210</td>
<td>Social Work for Diverse Populations</td>
<td>3</td>
</tr>
</tbody>
</table>

Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 311</td>
<td>Ethical Issues in Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 320</td>
<td>Social Work Practices in Mental Health</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 365</td>
<td>Social Work Intervention Methods I</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 375</td>
<td>Social Work Intervention Methods II</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 387</td>
<td>Social Work Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 385</td>
<td>SW Intervention Methods III</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 394</td>
<td>Social Work Practicum Seminar I</td>
<td>1</td>
</tr>
<tr>
<td>SOWK 397</td>
<td>Social Work Practicum I</td>
<td>5</td>
</tr>
<tr>
<td>SOWK 460</td>
<td>Social Welfare Policy</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 494</td>
<td>Social Work Practicum Seminar II</td>
<td>1</td>
</tr>
<tr>
<td>SOWK 497</td>
<td>Social Work Practicum II</td>
<td>5</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 39

Restricted Electives

Select three of the following: 9

- SOWK 301 Child Welfare
- SOWK 308 Medical Social Work
- SOWK 344 School Social Work
- SOWK 350 Legal Aspects of Social Work
- SOWK 377 Spirituality and Social Work
- SOWK 381 Gerontology and Social Work
- SOWK 396 Topics:
- SOWK 491 Directed Readings

Total Semester Credit Hours 9

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours: 23 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STAT 200</td>
<td>Probability and Statistics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 201</td>
<td>Introduction to Criminal Justice</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 311</td>
<td>Victimology</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 325</td>
<td>Juvenile Justice and Delinquency</td>
<td>3</td>
</tr>
<tr>
<td>CRMJ 330</td>
<td>Domestic Violence</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 330</td>
<td>Psychology of Adolescents and Emerging Adulthood</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 335</td>
<td>Psychology of Women</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 340</td>
<td>Abnormal Psychology</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 410</td>
<td>Drugs and Human Behavior</td>
<td>3</td>
</tr>
<tr>
<td>PSYP 305</td>
<td>Suicide Intervention Training</td>
<td>1</td>
</tr>
<tr>
<td>SOCI 101</td>
<td>Introduction to Lesbian, Gay, Bisexual, and Transgender Studies</td>
<td>3</td>
</tr>
<tr>
<td>SOCO 264</td>
<td>Social Problems-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>SOCO 310</td>
<td>Sociology of Religion</td>
<td>3</td>
</tr>
<tr>
<td>SOCO 316</td>
<td>Social Inequality</td>
<td>3</td>
</tr>
<tr>
<td>SOCO 320</td>
<td>Life Course and Aging</td>
<td>3</td>
</tr>
<tr>
<td>SOCO 325</td>
<td>Race and Ethnic Relations</td>
<td>3</td>
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</table>

Recommended General Electives:

<table>
<thead>
<tr>
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<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
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</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>SOCI 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>SOWK 150</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 210</td>
<td>Social Work for Diverse Populations</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Directed Readings</td>
<td>1</td>
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</table>

First Year

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<th>Title</th>
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<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
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</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 150</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 210</td>
<td>Social Work for Diverse Populations</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Directed Readings</td>
<td>1</td>
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</table>

Second Year

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>ESLL 202</td>
<td>Social Work for Diverse Populations</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 150</td>
<td>General Psychology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Directed Readings</td>
<td>1</td>
</tr>
</tbody>
</table>
Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Social Work (Minor)

Minor: Social Work
Program Code: M745

About This Minor. . .

Social Work is a profession dedicated to social and economic justice. Social workers focus primarily on the needs and empowerment of vulnerable, oppressed, at-risk populations, and those living in poverty. Social workers help people overcome some of life’s most difficult challenges: poverty, discrimination, abuse, addiction, physical illness, divorce, educational problems, disability, and mental illness.

The practice of social work requires knowledge of human development and behavior; of social, economic, and cultural institutions, and of the interaction of all these factors as well as skills in developing relationships, assessing needs and services while facilitating change. Social workers seek to strengthen relationships among people to promote, restore, maintain, and enhance the well-being of individuals, families, social groups, organizations, and communities. (http://www.socialworkers.org/)

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
• A student may earn up to five minors with any baccalaureate degree at CMU.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements
(15 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOWK 150</td>
<td>Introduction to Social Work</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 210</td>
<td>Social Work for Diverse Populations</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 301</td>
<td>Child Welfare</td>
<td>3</td>
</tr>
<tr>
<td>Select two of the following:</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>SOWK 308</td>
<td>Medical Social Work</td>
<td></td>
</tr>
<tr>
<td>SOWK 344</td>
<td>School Social Work</td>
<td></td>
</tr>
<tr>
<td>SOWK 350</td>
<td>Legal Aspects of Social Work</td>
<td></td>
</tr>
<tr>
<td>SOWK 377</td>
<td>Spirituality and Social Work</td>
<td></td>
</tr>
<tr>
<td>SOWK 381</td>
<td>Gerontology and Social Work</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>15</td>
<td></td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
SOCIOTHERY

Program Description

Sociology is the scientific study of social life. It is the exploration of social change and the complexities of the causes – and consequences – of human behavior, focusing on the ways social factors shape human behavior. Sociologists study a broad range of topics including families, politics, religion, education, race, class, and gender (and much more!). Sociologists ask questions about patterns of human life, and then answer those questions using a variety of theoretical perspectives and research methodologies. Sociologists frequently contribute to public debate about the causes of social problems and what we could do to help bring about positive social change.

The BA in Sociology exemplifies Colorado Mesa University’s liberal arts mission, emphasizing a wide range of skills and content areas. The sociology program encourages students to develop critical thinking skills, quantitative literacy, and the ability to apply their “sociological imagination” to problems, programs, and policies in the real world. Beyond this, sociology prepares students for responsible action in the social world and provides a foundation for lifelong learning and civic participation.

The American Sociological Association calls sociology a “21st Century Major” because it offers the flexibility students will need in a fast-changing and increasingly global labor market. Graduates who choose to go directly into a career can find work in human resources, social services, government, business, the health professions, the criminal justice system, and a wide variety of other industries. Sociology graduates are also very well-prepared for graduate study in sociology and related disciplines.

Contact Information
	Department of Social and Behavioral Sciences
	Lowell Heiny Hall 413
	970.248.1696

Bachelors/Minors

- Sociology (BA) (p. 658)
- Sociology (Minor) (p. 661)

Sociology (BA)

Degree: Bachelor of Arts
Major: Sociology
Program Code: 3728

About This Major . . .

Sociology is the scientific study of social life, social change, social organization, and the complex social causes and consequences of human behavior. Since all human behavior is social, the subject matter of sociology covers a broad array of topics, including family, religion, crime, politics, life course, race, gender, and social class. Sociology provides many distinctive perspectives on the social world, as well as a range of research methodologies that can be applied to virtually any aspect of social life, from corporate downsizing to problems of peace and war to the expression of emotion and beyond. Because sociology addresses the most challenging issues of our time, it is an expanding field increasingly tapped by those who craft policies and create social programs. For more information on the subject matter of sociology, got to www.asanet.org/topics (http://www.asanet.org/topics).

Sociology majors gain important skills in critical thinking, research methods and responsible citizenship. Sociology majors are prepared for future graduate work in sociology and related disciplines, as well as for a wide variety of careers in such sectors as business, the health professions, the criminal justice system, social services, human resources and government.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html and www.asanet.org/career-center/careers-sociology (http://www.asanet.org/career-center/careers-sociology).

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, specialized knowledge, and applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Articulate the reciprocal relationship between individuals and society (Specialized Knowledge);
2. Interpret published statistical findings on social problems or issues (Quantitative Fluency);
3. Frame and answer complex questions about social issues using theoretical perspectives and the scholarship from the field of sociology (Specialized Knowledge, Critical Thinking);
4. Write a fully developed and empirically supported research paper in standard American Sociological Association (ASA) format (Communication Fluency);
5. Describe ways in which theories and research from the discipline of sociology are applied in real-world organizational and clinical settings (Applied Learning).

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practice.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>English</strong> 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td><strong>Mathematics</strong> 1</td>
<td></td>
<td></td>
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<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td><strong>History</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one History course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Humanities course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Social and Behavioral Sciences</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Fine Arts</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Fine Arts course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td><strong>Natural Sciences</strong> 2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Select one Natural Sciences course with a lab</td>
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<td>4</td>
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<tr>
<td>Total Semester Credit Hours</td>
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<td>31</td>
</tr>
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</table>

1 Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.
2 One course must include a lab.

**Other Lower Division Requirements**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td><strong>Wellness Requirement</strong></td>
<td></td>
<td></td>
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<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td><strong>Essential Learning Capstone</strong> 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

**Foundation Courses**

(12 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 102</td>
<td>Human Geography-GTSS2</td>
<td>3</td>
</tr>
<tr>
<td>SOCO 264</td>
<td>Social Problems-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>Two consecutive classes in the same foreign language 1</td>
<td></td>
<td>6</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>12</td>
</tr>
</tbody>
</table>

1 Must earn a grade of “C” or better in each course. FLAS 114 & FLAS 115 will not fulfill this requirement.

**Program Specific Degree Requirements**

(46 semester hours, must maintain a 2.50 cumulative GPA or higher in coursework in this area, and no more than one “D” may be used in completing major requirements.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOCO 260</td>
<td>General Sociology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>SOCO 202</td>
<td>Introduction to Sociological Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td>3</td>
</tr>
<tr>
<td>SOCO 303</td>
<td>Sociological Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOCO 400</td>
<td>Classical Social Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOCO 410</td>
<td>Contemporary Social Theory</td>
<td>3</td>
</tr>
<tr>
<td><strong>Sociology Electives</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select six of the following:</td>
<td></td>
<td>18</td>
</tr>
<tr>
<td>SOCO 300</td>
<td>Political Sociology</td>
<td></td>
</tr>
<tr>
<td>SOCO 305</td>
<td>Environmental Sociology</td>
<td></td>
</tr>
<tr>
<td>SOCO 310</td>
<td>Sociology of Religion</td>
<td></td>
</tr>
<tr>
<td>SOCO 312</td>
<td>Social Movements and Political Activism</td>
<td></td>
</tr>
<tr>
<td>SOCO 314</td>
<td>Population</td>
<td></td>
</tr>
<tr>
<td>SOCO 316</td>
<td>Social Inequality</td>
<td></td>
</tr>
<tr>
<td>SOCO 318</td>
<td>Sociology of Health &amp; Illness</td>
<td></td>
</tr>
<tr>
<td>SOCO 320</td>
<td>Life Course and Aging</td>
<td></td>
</tr>
<tr>
<td>SOCO 323</td>
<td>Self and Society</td>
<td></td>
</tr>
<tr>
<td>SOCO 325</td>
<td>Race and Ethnic Relations</td>
<td></td>
</tr>
<tr>
<td>SOCO 340</td>
<td>Sociology of Gender</td>
<td></td>
</tr>
<tr>
<td>SOCO 345</td>
<td>Sociology of Sexuality</td>
<td></td>
</tr>
<tr>
<td>SOCO 351</td>
<td>21st Century Families</td>
<td></td>
</tr>
<tr>
<td>SOCO 396</td>
<td>Topics</td>
<td></td>
</tr>
<tr>
<td>SOCO 496</td>
<td>Topics</td>
<td></td>
</tr>
<tr>
<td>Any other upper division Sociology elective approved by a Sociology Advisor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>37</td>
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</table>
Sociology (BA)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Restricted Electives</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select three of the following:</td>
<td>9</td>
</tr>
<tr>
<td>CRMJ 311</td>
<td>Victimology</td>
<td></td>
</tr>
<tr>
<td>CRMJ 330</td>
<td>Domestic Violence</td>
<td></td>
</tr>
<tr>
<td>CRMJ 360</td>
<td>Crime and Deviance</td>
<td></td>
</tr>
<tr>
<td>CRMJ 370</td>
<td>Criminology</td>
<td></td>
</tr>
<tr>
<td>CRMJ 375</td>
<td>Women and Crime</td>
<td></td>
</tr>
<tr>
<td>PHIL 340</td>
<td>The Examined Life</td>
<td></td>
</tr>
<tr>
<td>PHIL 350</td>
<td>The Roots of Western Thought</td>
<td></td>
</tr>
<tr>
<td>PSYC 310</td>
<td>Child Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 320</td>
<td>Social Psychology</td>
<td></td>
</tr>
<tr>
<td>PSYC 330</td>
<td>Psychology of Adolescents and Emerging Adulthood</td>
<td></td>
</tr>
<tr>
<td>PSYC 335</td>
<td>Psychology of Women</td>
<td></td>
</tr>
<tr>
<td>PSYC 350</td>
<td>Psychology Of Adulthood</td>
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<tr>
<td>PSYC 370</td>
<td>Cross-Cultural Psychology</td>
<td></td>
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<tr>
<td>PSYC 411</td>
<td>Human Sexuality</td>
<td></td>
</tr>
<tr>
<td>SOWK 301</td>
<td>Child Welfare</td>
<td></td>
</tr>
<tr>
<td>SOWK 308</td>
<td>Medical Social Work</td>
<td></td>
</tr>
<tr>
<td>SOWK 350</td>
<td>Legal Aspects of Social Work</td>
<td></td>
</tr>
<tr>
<td>SOWK 377</td>
<td>Spirituality and Social Work</td>
<td></td>
</tr>
<tr>
<td>SOWK 381</td>
<td>Gerontology and Social Work</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Any upper division courses from History or Political Science</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>9</td>
</tr>
</tbody>
</table>

**General Electives**

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 25 semester hours; 4 hours of upper division may be needed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Select electives</strong></td>
<td>25</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>25</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>First Year</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCD1</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Natural Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCD2</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Second Year</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
<tr>
<td>Foundation Course - Foreign Language</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SOCO 264</td>
<td>Social Problems-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>STAT 215</td>
<td>Statistics for Social and Behavioral Sciences</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>14</td>
</tr>
<tr>
<td></td>
<td><strong>Third Year</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>SOCO 202</td>
<td>Introduction to Sociological Inquiry</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>SOCO 303</td>
<td>Sociological Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOCO Electives (2 courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Restricted Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>KINA Activity</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Fourth Year</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>SOCO 400</td>
<td>Classical Social Theory</td>
<td>3</td>
</tr>
<tr>
<td>SOCO Electives (2 courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>General Electives (2 courses)</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>SOCO 410</td>
<td>Contemporary Social Theory</td>
<td>3</td>
</tr>
<tr>
<td>General Electives (2 courses)</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Sociology Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Restricted Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>13</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>120</td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic advisor. 
department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their degree requirements:

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Sociology (Minor)
Minor: Sociology
Program Code: M750

About This Minor . . .
Sociology is the study of social life, social change, social organization, and the social causes and consequences of human behavior. Sociologists investigate the structure of groups, organizations, and societies, as well as how people interact within these contexts. Since all human behavior is social, the subject matter of sociology ranges widely from intimate families to hostile mobs; from organized crime to religious cults; and from the divisions of race, class and gender to the common beliefs in a culture. Sociology provides many distinctive perspectives on the social world, as well as a range of research methodologies that can be applied to virtually any aspect of social life, from corporate downsizing to problems of peace and war to the expression of emotion and beyond. Because sociology addresses the most challenging issues of our time, it is an expanding field whose potential is increasingly tapped by those who craft policies and create social programs.

Sociology majors gain important skills in critical thinking, research methods, and responsible citizenship. Students who minor in sociology develop an understanding of social behavior and social organization that is useful in any career path they choose.

Institutional Minor Requirements
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

• A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
• Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
• At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
• At least 25 percent of the classes must be taken at CMU.
• 2.00 cumulative GPA or higher for the courses used for the minor.
• A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
• A minor must be outside the major field of study.
• A student may earn up to five minors with any baccalaureate degree at CMU.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements
(24 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCO 202</td>
<td>Introduction to Sociological Inquiry</td>
<td>3</td>
</tr>
<tr>
<td>SOCO 260</td>
<td>General Sociology-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>SOCO 264</td>
<td>Social Problems-GTSS3</td>
<td>3</td>
</tr>
<tr>
<td>15 semester hours of Upper Division Sociology (SOCO) courses</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
SPANISH

Program Description
This program develops students’ ability to speak and write Spanish, understand spoken and written Spanish, as well as develop cultural competency which enables them to interact with citizens of various Spanish-speaking countries. In addition to the core classes, students may select from a variety of courses in language, literature, and applied professional Spanish. If they are interested in professional Spanish, students can strengthen their skills in a professional environment, including translation, interpreting, business, and medical and social services. They may also gain experience through internships in a variety of settings, including the sheriff’s department, the county courthouse, various medical offices, and non-profit organizations. Students may choose courses that provide theoretical and applied insights into Spanish language, linguistics, and literature. They will examine specific genres (poetry, prose, theatre and film) as well as the periods, regions, and movements. They can explore language variation in the Hispanic world through Phonetics & Phonology and Sociolinguistics. An optional Spanish Summer Study Abroad Program provides direct exposure to the Spanish-speaking world through Phonetics & Phonology and Sociolinguistics. An optional Spanish Summer Study Abroad Program provides direct exposure to language and culture in a variety of countries. Coordinated with the Spanish content courses, the Center for Teacher Education at CMU offers a comprehensive program of study that leads to a secondary teaching licensure in Colorado. Employers value the ability to communicate in Spanish, and strong language skills enhance graduates’ opportunities, especially when they combine their Spanish degree with other CMU programs such as Law Enforcement, Health Care, Social Work, and Business, among others.

Contact Information
Department of Languages, Literature, and Mass Communication
Escalante Hall 237
970.248.1687

Bachelors/Minors

- Education: Secondary Education, Spanish (BA) (p. 662)
- Hispanic Studies, Spanish (BA) (p. 665)
- Spanish (Minor) (p. 668)

Inactive Programs
The following programs are inactive and not accepting applicants:
- Applied Professional, Spanish (BA)

Education: Secondary Education, Spanish (BA)
Degree: Bachelor of Arts
Major: Spanish
Concentration: Secondary Education
Program Code: 3248

About This Major . . .
Spanish majors for secondary licensure study all aspects of the language and cultures of the Spanish-speaking world and its teaching, including linguistics, phonetics and phonology, foreign language teaching methods, and the literatures of Spain and Latin America.

The Center for Teacher Education offers a comprehensive program of study that leads to licensure in Colorado. Our professors are experienced, knowledgeable, accessible, and dedicated to the improvement of public education. At Colorado Mesa University, we pride ourselves on the personal touch. Faculty offer one-on-one guidance for course selection, field placements, student teaching, and employment. Our mission is to develop Educators as Innovators; we are always looking to improve the quality of learning in our programs and K-12 schools.

As a student, you will gradually accumulate over 200 hours of classroom experience before beginning student teaching. School districts throughout western Colorado provide opportunities to gain experience with children of various ages and backgrounds in a variety of school settings. A minimum of 75 credit hours of Essential Learning and content area coursework must be completed with a minimum GPA of 2.80 before a candidate may apply for admission to the Center for Teacher Education secondary licensure program. Please see the Teacher Education Admission Packet for further information on admissions criteria. EDUC 115 and EDUC 215, must be taken before applying to the program.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Express themselves coherently in written and oral Spanish. (Communication)
2. Apply knowledge of the structure of the Spanish language, including syntax, phonetics/phonology, and morphology. (Specialized Knowledge)
3. Demonstrate an awareness and appreciation of important literary and artistic movements/works, and cultural aspects in relation to the Spanish-speaking world. (Specialized Knowledge)
4. Develop a research project focused on second language acquisition or teaching methodologies. (Critical Thinking)
5. Compare commonalities and differences between Hispanic and other U.S. cultures. (Critical Thinking)
6. Demonstrate knowledge of linguistic variations that exist in the Spanish-speaking world. (Specialized Knowledge)
7. Instruct K-12 students based on self-written learning plans to address individual learning and developmental patterns for Spanish language acquisition. (Specialized Knowledge)
8. Design a safe and supportive learning environment for elementary and secondary education students. (Applied Learning)
9. Apply Spanish content knowledge while working with learners to access information, apply knowledge in real world settings, assuring learner mastery of the content. (Specialized Knowledge)
10. Integrate assessment, planning, and instructional strategies in coordinated and engaging ways through multiple means of communication. (Critical Thinking/Communication Fluency)
Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:

• 2.80 cumulative GPA or higher in all CMU coursework.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

Fine Arts

Select one Fine Arts course

Natural Sciences

Select one Natural Sciences course

Select one Natural Sciences course with a lab

Total Semester Credit Hours 31

1. Must receive a grade of “B” or better and must be completed by the time the student has 60 semester hours.
2. Must receive a grade of “C” or better, must be completed by the time the student has 60 semester hours.
3. Must receive a grade of “B” or better.
4. One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

(6 semester hours, must pass all courses with a grade of “C” or higher.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Two consecutive classes in the same foreign language</td>
<td>6</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

1. FLAS 114 & FLAS 115 will not fulfill this requirement.

Program Specific Degree Requirements

(42 semester hours, must pass all courses with a grade of “C” or higher and maintain a 2.80 cumulative GPA or higher in coursework in this area.)

• Any combination of FLAS 212, FLAS 301, FLAS 302, and FLAS 303 may also be used to satisfy the requirements of a major in which there exists a foreign language requirement.
• FLAV 496 and FLAS 422 may be taken more than once as long as the title/content of each course differs. Permission may be required to take some Topics courses. Check with the professor.
• Topics courses may be taken more than one time only if the course has a different topic.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAS 300</td>
<td>Spanish Composition and Grammar</td>
<td>3</td>
</tr>
<tr>
<td>FLAS 304</td>
<td>Advanced Oral Production and Composition</td>
<td>3</td>
</tr>
<tr>
<td>FLAS 305</td>
<td>Advanced Spanish Grammar and Spanish English Contrasts</td>
<td>3</td>
</tr>
<tr>
<td>FLAS 311</td>
<td>History and Culture of Spain</td>
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</tr>
<tr>
<td>FLAS 312</td>
<td>History and Culture of Latin America</td>
<td>3</td>
</tr>
<tr>
<td>FLAS 323</td>
<td>Introduction to Hispanic Literature I</td>
<td>3</td>
</tr>
<tr>
<td>FLAS 324</td>
<td>Introduction to Hispanic Literature II</td>
<td>3</td>
</tr>
<tr>
<td>FLAS 341</td>
<td>Introduction to Hispanic Linguistics</td>
<td>3</td>
</tr>
<tr>
<td>FLAS 441</td>
<td>Applied Phonetics and Phonology</td>
<td>3</td>
</tr>
<tr>
<td>FLAS 498</td>
<td>Spanish Senior Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

**Hispanic Studies**

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAS 424</td>
<td>Advanced Hispanic Literature</td>
<td>3</td>
</tr>
<tr>
<td>or FLAS 446</td>
<td>Spanish Language Variation</td>
<td></td>
</tr>
</tbody>
</table>

**Applied Studies**

Select one of the following: 3

- FLAS 431 | Spanish for Medical and Social Services                    |                       |
- FLAS 433 | Spanish for the Professions                                |                       |
- FLAS 434 | Introduction to Translation                                |                       |
- FLAS 435 | Introduction to Interpreting                               |                       |

Total Semester Credit Hours 36

**Restricted Electives**

Select two additional 300- or 400-level FLAS or FLAV courses 6

Total Semester Credit Hours 6

**Secondary Education Requirements**

(29 semester hours, All EDUC prefix courses must be completed with a grade of “B” or better to progress through the program sequence.)

Education Requirements:

- ENGL 111, ENGL 112, PSYC 233, EDUC 115 and EDUC 215 (all with a grade of “B” or better) and formal acceptance to the Teacher Education Program.
- Students must take the PRAXIS II exam in the content area prior to beginning the internship. Also, ALL other coursework toward the degree must be successfully completed prior to the internship.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 115</td>
<td>What It Means To Be An Educator (8 field experience hours)</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession (12 field experience hours)</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 342</td>
<td>Pedagogy and Assessment: Secondary and K-12 (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 343</td>
<td>Teaching to Diversity (20 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 442</td>
<td>Integrating Literacy Across the Curriculum: Secondary and K-12 Art (60 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 475</td>
<td>Classroom Management for K-12 Educators</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 497</td>
<td>Content Methodology Practicum (80 field experience hours)</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 497E</td>
<td>Methods of Teaching Secondary Spanish ¹</td>
<td>2</td>
</tr>
<tr>
<td>EDUC 499G</td>
<td>Teaching Internship and Colloquia: Secondary (600 12 field experience hours)</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 29

¹ This course is only offered in the fall semester. It may be taken with either the 300-level or 400-level EDUC courses but must be taken before the student teaching semester.

**General Electives**

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 6 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select electives</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

**First Year**

**Fall Semester**

Foundation Course ¹ 3

- Essential Learning - Humanities 3
- ENGL 111 | English Composition-GTCO1                                 | 3                     |
- Essential Learning - Natural Science 3
- KINE 100 | Health and Wellness                                        | 1                     |
- Elective 3

Total Semester Credit Hours 16

**Spring Semester**

Foundation Course ² 3

- FLAS 300 | Spanish Composition and Grammar                            | 3                     |
- ENGL 112 | English Composition-GTCO2                                  | 3                     |
- Essential Learning - History 3
- MATH 110 | College Mathematics-GTMA1 (or higher)                      | 3                     |

Total Semester Credit Hours 15

**Second Year**

**Fall Semester**

- FLAS 304 | Advanced Oral Production and Composition                   | 3                     |
- FLAS 305 | Advanced Spanish Grammar and Spanish English Contrasts    | 3                     |
- PSYC 233 | Human Growth and Development-GTSS3                        | 3                     |
- Essential Learning - Fine Arts 3
- Essential Learning - Natural Science with Lab 4

Total Semester Credit Hours 16

**Spring Semester**

- EDUC 115 | What It Means To Be An Educator (8 field experience hours)  | 1                     |
- KINE Activity 1
- Essential Learning - Social and Behavioral Sciences 3
- FLAS 312 | History and Culture of Latin America                       | 3                     |
- FLAS 324 | Introduction to Hispanic Literature II                     | 3                     |
- ESSL 290 | Maverick Milestone                                         | 3                     |
### Essential Speech

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

### Semester Credit Hours

| Semester Credit Hours | 15 |

### Third Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 215</td>
<td>Teaching as a Profession</td>
<td>1</td>
</tr>
<tr>
<td>Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>FLAS 311</td>
<td>History and Culture of Spain</td>
<td>3</td>
</tr>
<tr>
<td>FLAS 323</td>
<td>Introduction to Hispanic Literature I</td>
<td>3</td>
</tr>
<tr>
<td>FLAS 341</td>
<td>Introduction to Hispanic Linguistics</td>
<td>3</td>
</tr>
</tbody>
</table>

| Hispanic Studies Elective | Semester Credit Hours | 3 |

### Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 342</td>
<td>Pedagogy and Assessment: Secondary and K-12</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 343</td>
<td>Teaching to Diversity</td>
<td>3</td>
</tr>
<tr>
<td>FLAS 441</td>
<td>Applied Phonetics and Phonology</td>
<td>3</td>
</tr>
</tbody>
</table>

| Restricted Electives (2 courses) | Semester Credit Hours | 6 |

### Fourth Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 442</td>
<td>Integrating Literacy Across the Curriculum: Secondary and K-12 Art</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 475</td>
<td>Classroom Management for K-12 Educators</td>
<td>1</td>
</tr>
<tr>
<td>EDUC 497</td>
<td>Content Methodology Practicum</td>
<td>3</td>
</tr>
<tr>
<td>EDUC 497E</td>
<td>Methods of Teaching Secondary Spanish</td>
<td>2</td>
</tr>
<tr>
<td>FLAS 498</td>
<td>Spanish Senior Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

| Applied Studies Elective | Semester Credit Hours | 3 |

#### Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDUC 499G</td>
<td>Teaching Internship and Colloquia: Secondary</td>
<td>12</td>
</tr>
</tbody>
</table>

| Semester Credit Hours | 12 |

### Total Semester Credit Hours

| Total Semester Credit Hours | 120 |

---

1. Recommended: FLAS 211  
2. Recommended: FLAS 213

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

### Hispanic Studies, Spanish (BA)

Degree: Bachelor of Arts  
Major: Spanish  
Concentration: Hispanic Studies  
Program Code: 3247

### About This Major . . .

Spanish majors at Colorado Mesa University take classes which provide knowledge and skills intended to produce effective communication in Spanish as well as an understanding of the relationship of the Spanish language and its cultures to the world in which we live. Spanish and Hispanic Studies majors gain valuable insights into Peninsular and Latin-American language and literature as well as their histories and cultures. Students are also introduced to the linguistic properties of the Spanish language, with a focused study of Spanish phonetics and phonology. Students also take classes which provide insights into Spanish in the professions, such as translation, interpreting, and medical. Spanish graduates work in a variety of professions, where they apply their cultural competencies. In addition to that, many continue their studies in graduate schools.

For more information about what you can do with this major, go to [http://www.coloradomesa.edu/career/whatmajor.html](http://www.coloradomesa.edu/career/whatmajor.html).

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Express themselves coherently in written and oral Spanish.  
   (Communication Fluency)
2. Apply knowledge of the structure of the Spanish language, including syntax, phonetics/phonology, and morphology in speech and writing.  
   (Applied Learning)
3. Demonstrate an awareness, understanding, and appreciation of important literary and artistic movements/works, linguistics, history, translation, interpretation, and/or cultural aspects in relation to the Spanish-speaking world.  
   (Specialized Knowledge)
4. Demonstrate knowledge of the linguistic variations that exist in the Spanish-speaking world.  
   (Specialized Knowledge)
5. Develop a research project focused on the application of Spanish in an area of the student's choosing (e.g. analyzes significant literary movements/works and the authors; the application of Spanish in a professional context; second language acquisition or teaching methodologies).  
   (Critical Thinking)
6. Compare commonalities and differences between Hispanic and other U.S. cultures. (Critical Thinking)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.

**Essential Learning Requirements**

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other Lower Division Requirements**

(6 semester hours, must earn a "C" or better in each course)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

**Foundation Courses**

(6 semester hours, must earn a "C" or better in each course)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Two consecutive classes in the same foreign language</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

1. Dependent incoming Spanish proficiency level, either FLAS 111 & FLAS 112 or FLAS 211 & FLAS 213 are strongly recommended as these are prerequisites for other courses required for completion of this degree. FLAS 114 & FLAS 115 will not fulfill this requirement.

**Program Specific Degree Requirements**

(42 semester hours, must pass all courses with a grade of "C" or higher and maintain a 3.00 cumulative GPA or higher in coursework in this area.)

- Any combination of FLAS 212, FLAS 301, FLAS 302, and FLAS 303 may also be used to satisfy the requirements of a major in which there exists a foreign language requirement.
- FLAV 496, FLAS 422, FLAS 424, and topics courses may be taken more than once as long as the title/content of each course differs. Permission may be required to take some Topics courses. Check with the professor. FLAV courses count for the Spanish major only when taught in Spanish and as approved by your advisor.
Code | Title | Credit Hours
---|---|---
FLAS 300 | Spanish Composition and Grammar | 3
FLAS 304 | Advanced Oral Production and Composition | 3
FLAS 305 | Advanced Spanish Grammar and Spanish English Contrasts | 3
FLAS 311 | History and Culture of Spain | 3
FLAS 312 | History and Culture of Latin America | 3
FLAS 323 | Introduction to Hispanic Literature I | 3
FLAS 324 | Introduction to Hispanic Literature II | 3
FLAS 341 | Introduction to Hispanic Linguistics | 3
FLAS 441 | Applied Phonetics and Phonology | 3
FLAS 498 | Spanish Senior Practicum | 3

## Core Courses

### Hispanic Studies

FLAS 424 | Advanced Hispanic Literature | 3
or FLAS 446 | Spanish Language Variation | 3

### Applied Studies

Select one of the following: 3
- FLAS 431 | Spanish for Medical and Social Services | 3
- FLAS 433 | Spanish for the Professions | 3
- FLAS 434 | Introduction to Translation | 3
- FLAS 435 | Introduction to Interpreting | 3

**Total Semester Credit Hours** 36

## Code | Title | Credit Hours
---|---|---

## Core Courses

### First Year

#### Fall Semester

ENGL 111 | English Composition-GTCO1 | 3
Essential Learning - Humanities | 3
Essential Learning - Natural Science | 3
FLAS 111 | First-Year Spanish I | 3
KINE 100 | Health and Wellness | 1
General Elective | 1

## Restricted Electives

Select two additional 300- or 400-level FLAS or FLAV courses | 6

**Total Semester Credit Hours** 6

## General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 35 semester hours.

## Code | Title | Credit Hours
---|---|---

Select electives | | 35

**Total Semester Credit Hours** 35

## Course | Title | Credit Hours
---|---|---

### First Year

#### Fall Semester

ENGL 111 | English Composition-GTCO1 | 3
Essential Learning - Humanities | 3
Essential Learning - Natural Science | 3
FLAS 111 | First-Year Spanish I | 3
KINE 100 | Health and Wellness | 1
General Elective | 1

### Second Year

#### Fall Semester

FLAS 211 | Second-Year Spanish I | 3
Essential Learning - Social and Behavioral Sciences | 3
Essential Learning - Fine Arts | 3
Essential Learning - Natural Science with Lab | 4
General Elective | 3

### Hispanic Studies Elective

#### Spring Semester

ESSL 290 | Maverick Milestone | 3
ESSL 200 | Essential Speech | 1
General Elective | 3

#### Third Year

### Fall Semester

FLAS 304 | Advanced Oral Production and Composition | 3
FLAS 305 | Advanced Spanish Grammar and Spanish English Contrasts | 3

### General Electives (3 courses)

#### Spring Semester

FLAS 312 | History and Culture of Latin America | 3
FLAS 324 | Introduction to Hispanic Literature II | 3
FLAS 341 | Introduction to Hispanic Linguistics | 3

### General Electives (2 courses)

#### Fourth Year

### Fall Semester

FLAS 311 | History and Culture of Spain | 3
FLAS 323 | Introduction to Hispanic Literature I | 3
FLAS 441 | Applied Phonetics and Phonology | 3

### Hispanic Studies Elective

#### General Elective

### Spring Semester

FLAS 498 | Spanish Senior Practicum | 3

### Applied Studies Elective

Restricted Electives (2 courses) | | 6

**Total Semester Credit Hours** 12

### General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 35 semester hours.

### Code | Title | Credit Hours
---|---|---

Select electives | | 35

**Total Semester Credit Hours** 35

### Course | Title | Credit Hours
---|---|---

### First Year

#### Fall Semester

ENGL 111 | English Composition-GTCO1 | 3
Essential Learning - Humanities | 3
Essential Learning - Natural Science | 3
FLAS 111 | First-Year Spanish I | 3
KINE 100 | Health and Wellness | 1
General Elective | 1

### Second Year

#### Fall Semester

FLAS 211 | Second-Year Spanish I | 3
Essential Learning - Social and Behavioral Sciences | 3
Essential Learning - Fine Arts | 3
Essential Learning - Natural Science with Lab | 4
General Elective | 3

### Hispanic Studies Elective

#### Spring Semester

ESSL 290 | Maverick Milestone | 3
ESSL 200 | Essential Speech | 1
General Elective | 3

#### Third Year

### Fall Semester

FLAS 304 | Advanced Oral Production and Composition | 3
FLAS 305 | Advanced Spanish Grammar and Spanish English Contrasts | 3

### General Electives (3 courses)

#### Spring Semester

FLAS 312 | History and Culture of Latin America | 3
FLAS 324 | Introduction to Hispanic Literature II | 3
FLAS 341 | Introduction to Hispanic Linguistics | 3

### General Electives (2 courses)

#### Fourth Year

### Fall Semester

FLAS 311 | History and Culture of Spain | 3
FLAS 323 | Introduction to Hispanic Literature I | 3
FLAS 441 | Applied Phonetics and Phonology | 3

### Hispanic Studies Elective

#### General Elective

### Spring Semester

FLAS 498 | Spanish Senior Practicum | 3

### Applied Studies Elective

Restricted Electives (2 courses) | | 6

**Total Semester Credit Hours** 12

### Total Semester Credit Hours

120

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It
is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Spanish (Minor)

Minor: Spanish
Program Code: M245

About This Minor. . .

The minor in Spanish at CMU is focused on developing students’ abilities to speak, write and understand the Spanish language, as well as increasing the understanding of the cultures of Spanish-speaking countries. The goal is that those who graduate with this minor will become proficient enough to enable them to use Spanish effectively in a variety of practical settings.

Students pursuing this minor are allowed certain flexibility to choose classes that best complement their major area of study.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

• A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
• Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
• At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
• At least 25 percent of the classes must be taken at CMU.

• 2.00 cumulative GPA or higher for the courses used for the minor.
• A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
• A minor must be outside the major field of study.
• A student may earn up to five minors with any baccalaureate degree at CMU.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(21 semester hours, must pass all courses with a grade of “C” or higher.)

• FLAV 496 may be taken more than once as long as the title/content of each course differs. Permission may be required to take some Topics courses. Check with the professor.
• FLAV courses count for the Spanish minor only when taught in Spanish and as approved by your advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAS 213</td>
<td>Spanish Conversation and Grammar</td>
<td>3</td>
</tr>
<tr>
<td>6-7 additional 300- or 400-level FLAS or FLAV courses</td>
<td>18-21</td>
<td></td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>21-24</td>
<td></td>
</tr>
</tbody>
</table>

¹ FLAS 213 can be waived for those with sufficient proficiency.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
SPORT MANAGEMENT

Program Description
The Master of Science in Sport Management serves to develop students’ conceptual skills, theoretical comprehension, and practical knowledge in order that they are prepared to become the next generation of leaders in the sport industry. The degree leads to a wide variety of career choices. Sport management graduates work in school, university and college settings as athletic administrators, public relations/marketing directors, or in professional or amateur sports areas.

The Bachelor of Science in Sport Management prepares students to enter the world of sport business or pursue a graduate degree. The sport management degree provides an overview of the history and role of sport in society and covers topics such as leadership and ethics, governance and communication and legal considerations in sport operations. Students will also obtain business administration skills through courses in accounting, marketing, economics and business information technology.

The Associate of Science in Sport Management is designed for students who intend to continue their education and obtain a baccalaureate degree. The degree program includes the Colorado Statewide General Education Core and meets the lower-division general education requirements at most public institutions in Colorado. Graduates of this program may obtain entry-level positions in sport management or continue to pursue their bachelor-level education to obtain eventual higher-level positions related to sport management, business, or kinesiology.

The minor in Sport Management provides a strong platform for students to combine their interests in business with the business of sports. Students will explore subject areas which include: principles of management, organization/administration/legal considerations, marketing, governance and communication, sport law and risk management, leadership and ethics. This minor complements business or mass communication majors.

Opportunities for college graduates with sport management education and experience are very diverse and challenging. As sport has evolved into an integral part of the American culture, the operations of sports programs have become more sophisticated and complex. With an understanding of the intricacies of sport activities and knowledge of effective business practices, graduates will be prepared to oversee sport programs and facilities. Sport Management positions are found in a variety of settings including schools, colleges, and universities, public and private agencies, government, and the military.

Opportunities for college graduates with sport management education and experience are very diverse and challenging. As sport has evolved into an integral part of the American culture, the operations of sports programs have become more sophisticated and complex. With an understanding of the intricacies of sport activities and knowledge of effective business practices, graduates will be prepared to oversee sport programs and facilities. Sport Management positions are found in a variety of settings including schools, colleges, and universities, public and private agencies, government, and the military.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Critically evaluate the historical, socio-cultural, and philosophical aspects of sport. (Quantitative Fluency)
2. Apply fundamental concepts of management, administration, marketing, finance, and economics to sport organizations. (Applied Learning)
3. Construct codes of personal ethics and apply professional codes of ethics to a sport setting. (Critical Thinking)
4. Apply skill in interpersonal and organizational communication, to the mass media, in both print and electronic medium. (Communication Fluency)
5. Explain the relationships between sport and state/federal legislation, the court system, contract law, tort liability, agency law, antitrust law, constitutional law and collective bargaining. (Critical Thinking)
6. Articulate the implications of the various agencies that govern sport at the professional, collegiate, high school, and amateur levels. (Specialized Knowledge)

Contact Information
Department of Kinesiology
Maverick Center 237B
970.248.1635

Associates
• Sports Management, Liberal Arts (AS) (p. 672)

Bachelors/Minors
• Sport Management (BS) (p. 669)
• Sport Management (Minor) (p. 674)

Graduate
• Sport Management (MS) (p. 674)

Sport Management (BS)
Degree: Bachelor of Science
Major: Sport Management
Program Code: 3147

About This Major . . .
The Bachelor of Science in Sport Management prepares students to enter the world of sport business or pursue a graduate degree. The Sport Management degree provides an overview of the history and role of sport in society, and covers topics such as leadership and ethics, governance and communication, and legal considerations in sport operations. Students will also obtain business administration skills through courses in accounting, marketing, economics, and business information technology.

Opportunities for college graduates with sport management education and experience are very diverse and challenging. As sport has evolved into an integral part of the American culture, the operations of sports programs have become more sophisticated and complex. With an understanding of the intricacies of sport activities and knowledge of effective business practices, graduates will be prepared to oversee sport programs and facilities. Sport Management positions are found in a variety of settings including schools, colleges, and universities, public and private agencies, government, and the military.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

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1. Critically evaluate the historical, socio-cultural, and philosophical aspects of sport. (Quantitative Fluency)
2. Apply fundamental concepts of management, administration, marketing, finance, and economics to sport organizations. (Applied Learning)
3. Construct codes of personal ethics and apply professional codes of ethics to a sport setting. (Critical Thinking)
4. Apply skill in interpersonal and organizational communication, to the mass media, in both print and electronic medium. (Communication Fluency)
5. Explain the relationships between sport and state/federal legislation, the court system, contract law, tort liability, agency law, antitrust law, constitutional law and collective bargaining. (Critical Thinking)
6. Articulate the implications of the various agencies that govern sport at the professional, collegiate, high school, and amateur levels. (Specialized Knowledge)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.
• 120 semester hours minimum.
• Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
• 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
• 2.00 cumulative GPA or higher in all CMU coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

Wellness Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Foundation Courses
(9 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements
(52 semester hours, must pass all courses with a grade of "C" or higher and maintain a 2.5 GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISB 101</td>
<td>Business Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>ECON 202</td>
<td>Principles of Microeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>KINE 200</td>
<td>History and Philosophy of Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KINE 205</td>
<td>Introduction to Sport Management</td>
<td>3</td>
</tr>
<tr>
<td>KINE 335</td>
<td>Sport in Society</td>
<td>3</td>
</tr>
<tr>
<td>KINE 340</td>
<td>Sport Operations</td>
<td>3</td>
</tr>
<tr>
<td>KINE 350</td>
<td>Leadership and Ethics in Sport</td>
<td>3</td>
</tr>
<tr>
<td>KINE 342</td>
<td>Sport Law and Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>KINE 345</td>
<td>Survey of Economics and Finance in Sport</td>
<td>3</td>
</tr>
</tbody>
</table>
KINE 401 Organization/Administration/Legal Considerations in Physical Education and Sports 3
or MARK 335 Sales and Sales Management

KINE 402 Sport Marketing 3
KINE 406 Governance and Communication in Sport 3
KINE 494A Sport Management Senior Seminar 1
KINE 499 Internship 12

Total Semester Credit Hours 52

General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total hours to 120 hours. 21 semester hours, 3 additional upper division hours will be needed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select additional electives</td>
<td>20</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>21</td>
</tr>
</tbody>
</table>

Course Title Semester Credit Hours

First Year
Fall Semester
ENGL 111 English Composition-GTCO1 3
KINE 100 Health and Wellness 1
KINE 200 History and Philosophy of Sport and Physical Education 3
KINE 205 Introduction to Sport Management 3
Essential Learning - Social and Behavioral Science 3
Essential Learning - History 3

Spring Semester
ENGL 112 English Composition-GTCO2 3
CISB 101 Business Information Technology 3
Essential Learning - Humanities 3
Essential Learning - Fine Arts 3
MATH 113 College Algebra-GTMA1 4

Second Year
Fall Semester
ECON 201 Principles of Macroeconomics-GTSS1 3
Essential Learning - Social and Behavioral Science 3
Elective 3
KINA Activity 1
Essential Learning - Natural Science 3
ACCT 201 Principles of Financial Accounting 3

Spring Semester
ECON 202 Principles of Microeconomics-GTSS1 3
MARK 231 Principles of Marketing 3
MANG 201 Principles of Management 3
Essential Learning - Natural Science with Lab 4
ESSL 290 Maverick Milestone 3
ESSL 200 Essential Speech 1

Third Year
Fall Semester
KINE 342 Sport Law and Risk Management 3

KINE 345 Survey of Economics and Finance in Sport 3
Electives (3 courses) 9

Spring Semester
KINE 335 Sport in Society 3
KINE 340 Sport Operations 3
KINE 350 Leadership and Ethics in Sport 3
KINE 402 Sport Marketing 3
Elective 3

Fourth Year
Fall Semester
MARK 335 or KINE 401 Sales and Sales Management or Organization/Administration/Legal Considerations in Physical Education and Sports 3
KINE 406 Governance and Communication in Sport 3
KINE 494A Sport Management Senior Seminar 1
KINA Activity 1
Electives (2 courses) 5

Spring Semester
KINE 499 Internship 12

Total Semester Credit Hours 120

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.
If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

# Sports Management, Liberal Arts (AS)

**Degree:** Associate of Science  
**Major:** Liberal Arts  
**Emphasis:** Sport Management  
**Program Code:** 2140  

## About This Major...

The Associate of Science (A.S.) degree is designed for students who intend to continue their education and obtain a baccalaureate degree. The degree program includes the Colorado Statewide General Education Core and meets the lower-division general education requirements at most public institutions in Colorado. Graduates of this program may obtain entry-level positions in sport management or continue to pursue their bachelor-level education to obtain eventual higher-level positions related to sport management, business, or kinesiology.

For more information on what you can do with this major, go to [http://www.coloradomesa.edu/career/whatmajor.html](http://www.coloradomesa.edu/career/whatmajor.html)

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Critically evaluate the historical, socio-cultural, and philosophical aspects of sport. (Quantitative Fluency)
2. Identify fundamental concepts of management, administration, marketing, finance, and economics to sport organizations. (Applied Learning, Specialized Knowledge)
3. Construct codes of personal ethics and apply professional codes of ethics to a sport setting. (Critical Thinking)
4. Apply skill in interpersonal and organizational communication, to the mass media, in both print and electronic medium. (Communication Fluency)

## Institutional Degree Requirements

The following institutional degree requirements apply to all CMU or WCCC Associate of Science (AS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours total.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade of "C" or higher must be earned in all Essential Learning courses in order to be accepted for transfer under the Colorado Core Transfer Consortium General Education curriculum or gtPathways, Colorado’s guaranteed transfer program.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 15 semester credit hours for an associate of science degree. A maximum of 6 of the 15 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

## Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

1 credits apply to the Essential Learning requirements and 1 credit applies to elective credit.

3 7 semester hours, one course must include a lab.
Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wellbeing Requirement</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>2</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements

(21 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CISB 101</td>
<td>Business Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>KINE 200</td>
<td>History and Philosophy of Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>KINE 205</td>
<td>Introduction to Sport Management</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>ECON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>21</td>
</tr>
</tbody>
</table>

General Electives

All college level courses, not listed above, that will bring your total semester hours to 60 hours. 6 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select additional electives</td>
<td>5</td>
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</table>

First Year

Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>KINE 205</td>
<td>Introduction to Sport Management</td>
<td>3</td>
</tr>
<tr>
<td>MATH 113</td>
<td>College Algebra-GTMA1</td>
<td>4</td>
</tr>
<tr>
<td>Essential Learning - Natural Science without lab</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Wellness Requirement - Activities Course</td>
<td>1</td>
<td></td>
</tr>
<tr>
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<td>Total Semester Credit Hours</td>
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</table>

Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Natural Science with lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Humanities</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>16</td>
</tr>
</tbody>
</table>

Second Year

Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>KINE 200</td>
<td>History and Philosophy of Sport and Physical Education</td>
<td>3</td>
</tr>
<tr>
<td>EDON 201</td>
<td>Principles of Macroeconomics-GTSS1</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Fine Arts</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
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Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>CISB 101</td>
<td>Business Information Technology</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>14</td>
</tr>
</tbody>
</table>

1 Students that intend to continue with Colorado Mesa University should take ESSL 290 and ESSL 200 during the final semester of their Associate of Science work.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
Sport Management (Minor)

Minor: Sport Management  
Program Code: M103

About This Minor...

The minor in Sport Management provides a strong platform for students to combine their interests in business with the business of sports. Students will explore subject areas which include: principles of management, organization/administration/legal considerations, marketing, governance and communication, sport law and risk management, leadership, and ethics. This minor could complement business or mass communications majors.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.
- If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Program Specific Minor Requirements

(24 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>KINE 205</td>
<td>Introduction to Sport Management</td>
<td>3</td>
</tr>
<tr>
<td>KINE 350</td>
<td>Leadership and Ethics in Sport</td>
<td>3</td>
</tr>
<tr>
<td>KINE 342</td>
<td>Sport Law and Risk Management</td>
<td>3</td>
</tr>
<tr>
<td>KINE 340</td>
<td>Sport Operations</td>
<td>3</td>
</tr>
<tr>
<td>or KINE 401</td>
<td>Organization/Administration/Legal Considerations in Physical Education and Sports</td>
<td>3</td>
</tr>
<tr>
<td>KINE 402</td>
<td>Sport Marketing</td>
<td>3</td>
</tr>
<tr>
<td>or MARK 402</td>
<td>Sport Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the "Intent to Graduate" form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Sport Management (MS)

Degree: Master of Science  
Program of Study: Sport Management  
Program Code: 8150

About This Program...

The Department of Kinesiology offers the Master of Science degree in Sport Management. The mission of the degree program is to develop students' conceptual skills, theoretical comprehension, and practical knowledge in order that they are prepared to become the next generation of leaders in the sport industry.

The degree leads to a wide variety of career choices. Sport management graduates work in school, university and college settings as athletic administrators, public relations/marketing directors, or in professional or amateur sports areas.

All CMU master-level graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, a Master of Science in Sport Management graduate will be able to:

1. Relate advanced principles of the sport management field.
2. Incorporate a variety of oral and written business and professional communications skills.
3. Practice ethical behavior in the workplace.
4. Incorporate advanced sport management principles and theories.
5. Integrate education in the workplace.

This program requires completion of a thesis or internship-related project.
Institutional Degree Requirements

The following institutional requirements apply to all CMU graduate-level degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Graduate certificates consist of a minimum of 5 credit hours.
  Master's degrees consist of a minimum of 30 credit hours. Doctoral degrees consist of a minimum of 60 credit hours
- All credits in a graduate program must be minimally at the 500-level.
- At least fifty percent of the credit hours must be taken at CMU.
- Students must achieve a 3.00 cumulative GPA or higher in all CMU coursework.
- Students may not apply coursework with a grade lower than a "B" toward graduation requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Graduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Degree Requirements

(30 semester hours)

In addition to coursework, this program requires completion of a thesis or internship-related project.

Sport Management Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 500</td>
<td>Facility and Equipment Management in Sport and Fitness</td>
<td>3</td>
</tr>
<tr>
<td>KINE 501</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>KINE 502</td>
<td>Sport Marketing</td>
<td>3</td>
</tr>
<tr>
<td>KINE 510</td>
<td>Event and Program Management in Sport and Fitness</td>
<td>3</td>
</tr>
<tr>
<td>KINE 535</td>
<td>Sport in Society</td>
<td>3</td>
</tr>
<tr>
<td>KINE 542</td>
<td>Sport Law and Ethics</td>
<td>3</td>
</tr>
<tr>
<td>KINE 591</td>
<td>Directed Readings</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 21

Track Options

Complete either the Thesis Option Track or the Non-Thesis Option Track below.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 587</td>
<td>Research</td>
<td>3</td>
</tr>
<tr>
<td>KINE 590</td>
<td>Thesis I</td>
<td>3</td>
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</table>

Non-Thesis Option Track Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 520</td>
<td>Management Policies and Regulations in Sport and Fitness</td>
<td>3</td>
</tr>
<tr>
<td>KINE 545</td>
<td>Sport Finance</td>
<td>3</td>
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<tr>
<td>KINE 599</td>
<td>Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 9

Final Requirement

Successful completion of one of the following in the final semester:

- Thesis
- Internship-Related Project

Thesis Option Suggested Course Sequencing

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 501</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>KINE 535</td>
<td>Sport in Society</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 6

Fall Semester First Mod

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>KINE 542</td>
<td>Sport Law and Ethics</td>
<td>3</td>
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<tr>
<td>KINE 591</td>
<td>Directed Readings</td>
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Total Semester Credit Hours: 6

Spring Semester First Mod

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>KINE 500</td>
<td>Facility and Equipment Management in Sport and Fitness</td>
<td>3</td>
</tr>
<tr>
<td>KINE 502</td>
<td>Sport Marketing</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 6

Spring Semester Second Mod

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 510</td>
<td>Event and Program Management in Sport and Fitness</td>
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</tr>
<tr>
<td>KINE 590</td>
<td>Thesis I</td>
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</table>

Total Semester Credit Hours: 6

Summer Semester

<table>
<thead>
<tr>
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<tr>
<td>KINE 587</td>
<td>Research</td>
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</tr>
<tr>
<td>KINE 592</td>
<td>Thesis II</td>
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</table>

Total Semester Credit Hours: 6

Non-Thesis Option Suggested Course Sequencing

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 501</td>
<td>Research Methods</td>
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</tbody>
</table>

First Year

Fall Semester First Mod

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>KINE 501</td>
<td>Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>KINE 535</td>
<td>Sport in Society</td>
<td>3</td>
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</tbody>
</table>

Total Semester Credit Hours: 6

Fall Semester Second Mod

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<td>KINE 591</td>
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</table>

Total Semester Credit Hours: 6

Spring Semester First Mod

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<tr>
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<tr>
<td>KINE 502</td>
<td>Sport Marketing</td>
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Total Semester Credit Hours: 6

Spring Semester Second Mod

<table>
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</thead>
<tbody>
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</tr>
<tr>
<td>KINE 590</td>
<td>Thesis I</td>
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</table>

Total Semester Credit Hours: 6

Summer Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
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<td>KINE 587</td>
<td>Research</td>
<td>3</td>
</tr>
<tr>
<td>KINE 592</td>
<td>Thesis II</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 6

Non-Thesis Option Suggested Course Sequencing

First Year

Fall Semester First Mod

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
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Total Semester Credit Hours: 3
<table>
<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>KINE 535</td>
<td>Sport in Society</td>
<td>3</td>
</tr>
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<td></td>
<td>Semester Credit Hours</td>
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</tr>
<tr>
<td></td>
<td><strong>Fall Semester Second Mod</strong></td>
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<tr>
<td>KINE 542</td>
<td>Sport Law and Ethics</td>
<td>3</td>
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<tr>
<td>KINE 591</td>
<td>Directed Readings</td>
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<td>Semester Credit Hours</td>
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<tr>
<td></td>
<td><strong>Spring Semester First Mod</strong></td>
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</tr>
<tr>
<td>KINE 500</td>
<td>Facility and Equipment Management in Sport and Fitness</td>
<td>3</td>
</tr>
<tr>
<td>KINE 502</td>
<td>Sport Marketing</td>
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<tr>
<td></td>
<td>Semester Credit Hours</td>
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</tr>
<tr>
<td></td>
<td><strong>Spring Semester Second Mod</strong></td>
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</tr>
<tr>
<td>KINE 510</td>
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<tr>
<td>KINE 520</td>
<td>Management Policies and Regulations in Sport and</td>
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</tr>
<tr>
<td></td>
<td>Fitness</td>
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<td></td>
<td>Semester Credit Hours</td>
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<tr>
<td></td>
<td><strong>Summer Semester</strong></td>
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<tr>
<td>KINE 545</td>
<td>Sport Finance</td>
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<td>KINE 599</td>
<td>Internship</td>
<td>3</td>
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<tr>
<td></td>
<td>Semester Credit Hours</td>
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<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td>30</td>
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</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If your petition for graduation is denied, it will be your responsibility to apply for graduation in a subsequent semester. Your “Intent to Graduate” does not automatically move to a later graduation date.
STATISTICS

(See Mathematics (p. 530))
STUDIO ART

(See Art (p. 166))
SUPERVISION

(see Business (p. 203))
SURGICAL TECHNOLOGY

Program Description
This program prepares the student to work in surgical operations areas under the supervision of surgeons, registered nurses, or other surgical personnel. They may help set up operating rooms, prepare and transport patients for surgery, adjust lights and equipment, pass instruments and other supplies to surgeons and surgeon’s assistants, hold retractors, cut sutures, and help count sponges, needles, supplies, and instruments.

The program requires both classroom time and clinical time as described in the course syllabi. Clinical placements will be at surgical site affiliations in western Colorado. The goal of the program is to prepare competent entry-level surgical technologists in the cognitive (thinking), psychomotor (skills), and affective (behavior) learning domains.

See Nursing (p. 587) section for admission process.

Contact Information
Department of Health Sciences
Health Sciences 101
970.248.1398

Associates
• Surgical Technology (AAS) (p. 680)

Surgical Technology (AAS)
Degree: Associate of Applied Science
Major: Surgical Technology
Program Code: 1651

About This Major . . .
The Associates of Applied Science Surgical Technology Program is designed to cover both the academic and clinical skills necessary to perform as a surgical technologist. The program begins fall semester of each year. Certain prerequisite courses must be completed prior to admission to the professional portion, the 2nd year, of this program. Students will complete this Associate Degree program in sequence with prerequisites and Essential Learning courses the first year. The application process will occur in the second semester or their first year. Once accepted to the program, the second year will prepare students to work as operating room technologists and assist in surgical operations.

Surgical technologists work as members of a healthcare team alongside surgeons, registered nurses, and other health care workers. They prepare operating rooms, arrange equipment, and help doctors during surgeries. Students will be prepared to work in many areas of the surgery setting including preparing patients for surgery by washing and disinfecting incision sites, positioning patients on the operating table, covering patients with sterile drapes, and taking patients to and from the operating room. Surgical technologists prepare sterile solutions and medications used in surgery and check that all surgical equipment is working properly. They help the surgical team put on sterile gowns and gloves. During an operation, surgical technologists pass instruments and supplies to surgeons and first assistants. They also hold retractors and may hold internal organs in place during the procedure. Technologists also may handle specimens taken for laboratory analysis. Surgical technologists who take and pass the certifying examination offered by the NBSTSA (National Board for Surgical Technology and Surgical Assisting) are certified and authorized to use the initials CST to designate their status as a Certified Surgical Technologist. Certification can be a means of upward mobility, a condition of employment, a route to higher salary, or a source of national recognition.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student-learning outcomes, graduates of this major will be able to:

1. Apply knowledge and skills from the biological sciences to safely perform during the pre-operative, intra-operative, and post-operative phases of patient care. (Specialized Knowledge/Applied Learning)
2. Demonstrate an understanding of the ethical, legal, moral, and medical values related to the patient and the surgical team. (Specialized Knowledge/Applied Learning)
3. Integrate knowledge gained in core surgical technology courses to prepare for the role of a surgical technologist, working with surgical interventions. Specialized Knowledge/Applied Learning)
4. Correlate the elements, action, and use of medications and anesthetic agents used during the peri-operative experience. (Intellectual Skills Quantitative fluency)
5. Utilize appropriate medical terminology to communicate clearly, professionally, and effectively with patients, physicians, and co-workers and provide for accurate documentation. (Communication Fluency)
6. Employ appropriate ethical, professional, and respectful values while providing care to diverse populations within the healthcare system. (Communication Fluency)
7. Utilize learned competencies to assemble and operate instruments, equipment, and supplies for the delivery of patient care as an entry-level practitioner during basic surgical procedures. (Intellectual Skills Critical Thinking)
8. Demonstrate the ability to prioritize and organize the surgical field, while considering the physiology and urgency of patient care needs. (Intellectual Skills: Critical Thinking)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 60 semester hours minimum.
• Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:
• 68 semester hours total for the AAS, Surgical Technology.

Essential Learning Requirements
(16 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics
MATH 113 College Algebra-GTMA1 4

Other Essential Learning Core Courses
PSYC 150 General Psychology-GTSS3 3
Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course 3

Total Semester Credit Hours 16

Other Lower Division Requirements

Wellness Requirement
KINE 100 Health and Wellness 1
Select one KINA Activity course 1
Total Semester Credit Hours 2

Foundation Courses
(12 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 209</td>
<td>Human Anatomy and Physiology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 209L</td>
<td>Human Anatomy and Physiology Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 210</td>
<td>Human Anatomy and Physiology II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 210L</td>
<td>Human Anatomy and Physiology II Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements
(38 semester hours, must maintain a 2.00 cumulative GPA or higher in coursework in this area.)
• Surgical Technology (SUTE) courses must be completed in sequence and may only be taken after acceptance into the program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>SUTE 200</td>
<td>Medical Terminology in Surgical Technology</td>
<td>3</td>
</tr>
<tr>
<td>SUTE 202</td>
<td>Fundamentals in Surgical Technology</td>
<td>4</td>
</tr>
<tr>
<td>SUTE 204</td>
<td>Basic Surgical Technology Skills Lab</td>
<td>4</td>
</tr>
<tr>
<td>SUTE 206</td>
<td>Pharmacology for Surgical Technology</td>
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</tr>
<tr>
<td>SUTE 210</td>
<td>Safety in Surgical Technology</td>
<td>3</td>
</tr>
<tr>
<td>SUTE 212</td>
<td>Surgical Procedures I</td>
<td>3</td>
</tr>
<tr>
<td>SUTE 214</td>
<td>Surgical Procedures II</td>
<td>3</td>
</tr>
<tr>
<td>SUTE 218</td>
<td>Specialty Surgical Procedures</td>
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<tr>
<td>SUTE 220</td>
<td>Surgical Practicum I</td>
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</tr>
<tr>
<td>SUTE 230</td>
<td>Surgical Practicum II</td>
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</tr>
<tr>
<td>SUTE 240</td>
<td>Surgical Practicum III</td>
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</table>

Total Semester Credit Hours 38

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
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<td>SUTE 206</td>
<td>Pharmacology for Surgical Technology</td>
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<tr>
<td>SUTE 210</td>
<td>Safety in Surgical Technology</td>
<td>3</td>
</tr>
<tr>
<td>SUTE 212</td>
<td>Surgical Procedures I</td>
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</tr>
<tr>
<td>SUTE 214</td>
<td>Surgical Procedures II</td>
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</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
SUSTAINABILITY PRACTICES

Program Description
“Sustainability” is a way of living that meets the needs of the present without compromising the ability of future generations to meet their own needs. In order to achieve sustainability, we must examine our approach to energy, food, shelter, transportation and other aspects of everyday life. Can we continue our current approach indefinitely? What changes need to occur to make our approach sustainable? What can we do to make those changes?

Through the certificate in sustainability practices, students learn the principles of sustainability along with specific ways to implement them. Anyone seeking to understand and practice this approach will benefit from completion of the program. For some, the program can serve as a first step toward a more in-depth knowledge that may lead to a career. This certificate could help professionals to distinguish their business practices, community leaders to better understand future trends in community planning and any student, educator or citizen to make a positive difference in the environment.

Contact Information
Department of Physical and Environmental Sciences
Wubben Science 232
970.248.1993

Certificates
• Sustainability Practices (Professional Certificate) (p. 404)
SUSTAINABLE AGRICULTURE

Program Description
Sustainable agriculture is a holistic approach to agricultural practices, using the principles of ecology — the study of relationships between organisms and their environment. Sustainable practices include an integrated system of plant and animal production practices, often with a long term, site-specific application. These principles are integrated throughout each course of the sustainable agriculture degree, addressing how to enhance environmental quality of food production, while also taking into account the economic viability of farm and ranch operation. Graduates of this Associate of Applied Science degree will be well-prepared for a work place environment with a solid foundation of sustainable agricultural principles, theory-based lectures, and hands-on experiential learning.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
• Sustainable Agriculture (AAS) (p. 684)

Sustainable Agriculture (AAS)
Degree: Associate of Applied Science
Major: Sustainable Agriculture
Program Code: 1310

About This Major . . .
The Sustainable Agriculture curriculum is designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. Students learn the fundamentals of sustainable agriculture, focusing on crop and animal production with farm business. Emphasis is placed on entrepreneurial and practical field training. Students will complete a business plan and an agricultural internship in marketing and farming. Graduates are qualified for employment in a variety of positions associated with sustainable agriculture, including horticultural and livestock operations, wholesale and retail management, nursery operations, and environmental and agricultural education.

This program will provide the student with an understanding of Sustainable Agriculture and its principles of operation and control. The graduate will understand the technical aspects of the work, the responsibilities of the work and the importance of safety in this vitally important career.

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written and electronic forms that are needed for entry level employment. (Communication Fluency)

2. Apply mathematical and applied physics concepts for industry to meet employment requirements. (Quantitative Fluency)

3. Research, evaluate, synthesize and apply information/data relevant to business, sciences and technical careers. (Critical Thinking)

4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of technical skills. (Specialized Knowledge)

5. Perform the necessary applied skill sets to fulfill the needs of entry level employment. (Applied Learning)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

• 60 semester hours minimum.
• Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(15 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
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<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
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<tr>
<td></td>
<td><strong>Mathematics</strong></td>
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</tr>
<tr>
<td>MATH 108</td>
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<tr>
<td></td>
<td><strong>Other Essential Learning Core Courses</strong></td>
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</table>
Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course 3
Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course 3
Total Semester Credit Hours 15

1 This is a 4 semester credit hour course. 3 credits apply to Essential Learning requirements and 1 credit applies to General Electives.

Other Lower Division Requirements

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Program Specific Degree Requirements

(37 semester hours, must earn a grade of “C” or better in each course.)

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<td>AGRS 102</td>
<td>Agriculture Economics</td>
<td>3</td>
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<td>Agricultural Machinery</td>
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<tr>
<td>AGRS 205</td>
<td>Farm and Ranch Management</td>
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<tr>
<td>AGRS 210</td>
<td>Agricultural Marketing</td>
<td>3</td>
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<tr>
<td>AGRS 240</td>
<td>Introduction to Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 240L</td>
<td>Introduction to Soil Science Laboratory</td>
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<td>AGRS 293</td>
<td>Cooperative Experience</td>
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<td>ACCT 201</td>
<td>Principles of Financial Accounting</td>
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<td>AGRS 110</td>
<td>Integrated Pest Management</td>
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<tr>
<td>AGRS 118</td>
<td>Farm Structures and Green Houses</td>
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<tr>
<td>AGRS 208</td>
<td>Agricultural Finance</td>
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<tr>
<td>AGRS 224</td>
<td>Integrated Ranch Management</td>
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</tr>
<tr>
<td>AGRS 225</td>
<td>Feeds and Feeding</td>
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<tr>
<td>AGRS 230</td>
<td>Farm Animal Anatomy and Physiology</td>
<td></td>
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<tr>
<td>AGRS 250</td>
<td>Live Animal and Carcass Evaluation</td>
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<td>AGRS 250L</td>
<td>Live Animal and Carcass Evaluation Laboratory</td>
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<table>
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<tr>
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<tr>
<td>AGRS 260</td>
<td>Plant Propagation</td>
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<tr>
<td>AGRS 288</td>
<td>Livestock Practicum</td>
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<td>AGRS 296</td>
<td>Topics:</td>
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<td>CISB 101</td>
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General Electives

(6 semester hours)

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Animal Science Advising Sheet

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<tr>
<td>Fall Semester</td>
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<tr>
<td>MATH 108</td>
<td>Technical Mathematics</td>
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<tr>
<td>AGRS 100</td>
<td>Practical Crop Production</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 100L</td>
<td>Practical Crop Production Laboratory</td>
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</tr>
<tr>
<td>AGRS 125</td>
<td>Agricultural Machinery</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 105</td>
<td>Animal Science</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 230</td>
<td>Farm and Ranch Management</td>
<td>3</td>
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<td>AGRS 205</td>
<td>Animal Science</td>
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<td>AGRS 210</td>
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<tr>
<td>AGRS 240</td>
<td>Introduction to Soil Science</td>
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<tr>
<td>AGRS 240L</td>
<td>Introduction to Soil Science Laboratory</td>
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<td>Cooperative Experience</td>
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<tr>
<td>Spring Semester</td>
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<td>ENGL 111</td>
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<td>AGRS 230</td>
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<td>Agriculture Economics</td>
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<td>AGRS 205</td>
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<td>AGRS 293</td>
<td>Cooperative Experience</td>
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<td>Second Year</td>
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<td>Fall Semester</td>
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<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
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<td>AGRS 240</td>
<td>Introduction to Soil Science</td>
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<td>AGRS 240L</td>
<td>Introduction to Soil Science Laboratory</td>
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<td>AGRS 250</td>
<td>Live Animal and Carcass Evaluation</td>
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<tr>
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Selected Semesters:

- First Year
  - Fall Semester
    - MATH 108: Technical Mathematics 4 credit hours
    - AGRS 100: Practical Crop Production 3 credit hours
    - AGRS 100L: Practical Crop Production Laboratory 1 credit hour
    - AGRS 125: Agricultural Machinery 3 credit hours
    - AGRS 105: Animal Science 3 credit hours
    - AGRS 230: Farm and Ranch Management 3 credit hours
    - AGRS 205: Animal Science 3 credit hours
    - AGRS 210: Agricultural Marketing 3 credit hours
    - AGRS 240: Introduction to Soil Science 3 credit hours
    - AGRS 240L: Introduction to Soil Science Laboratory 1 credit hour
    - AGRS 293: Cooperative Experience 5 credit hours
  - Spring Semester
    - ENGL 111: English Composition-GTCO1 3 credit hours
    - AGRS 230: Farm Animal Anatomy and Physiology 3 credit hours
    - AGRS 102: Agriculture Economics 3 credit hours
    - AGRS 205: Farm and Ranch Management 3 credit hours
    - Essential Learning - Social and Behavioral Sciences, Natural Science, Fine Arts, or Humanities 3 credit hours
  - Summer Semester
    - AGRS 293: Cooperative Experience 5 credit hours

- Second Year
  - Fall Semester
    - ENGL 112: English Composition-GTCO2 3 credit hours
    - AGRS 240: Introduction to Soil Science 3 credit hours
    - AGRS 240L: Introduction to Soil Science Laboratory 1 credit hour
    - AGRS 250: Live Animal and Carcass Evaluation 1 credit hour
    - AGRS 250L: Live Animal and Carcass Evaluation Laboratory 2 credit hours
    - Essential Learning - Social and Behavioral Sciences, Natural Science, Fine Arts, or Humanities 3 credit hours
  - Spring Semester
    - KINA 1XX: Activity 1 credit hour
    - KINE 100: Health and Wellness 1 credit hour
    - AGRS 210: Agricultural Marketing 3 credit hours
    - AGRS 288: Livestock Practicum 1 credit hour
    - AGRS 225: Feeds and Feeding 4 credit hours
    - AGRS 296: Topics: (Sustainable Agriculture Practices) 1-3 credit hours
    - General Electives (if needed) 2 credit hours
  - Total Semester Credit Hours 60-62
### Crop/Plant Advising Sheet

<table>
<thead>
<tr>
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<th>Semester Credit Hours</th>
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<td>Agriculture Economics</td>
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<td>Introduction to Entomology</td>
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<td>Introduction to Entomology Laboratory</td>
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### Agriculture Business Advising Sheet

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<td>Agricultural Machinery</td>
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<td>Animal Science</td>
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<td>Agriculture Economics</td>
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<td></td>
</tr>
<tr>
<td>AGRS 103</td>
<td>Introduction to Entomology</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>AGRS 103L</td>
<td>Introduction to Entomology Laboratory</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>AGRS 205</td>
<td>Farm and Ranch Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social Science, Natural Science, Fine Arts, or Humanities</td>
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</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Second Year</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRS 240</td>
<td>Introduction to Soil Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRS 240L</td>
<td>Introduction to Soil Science Laboratory</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>AGRS 260</td>
<td>Plant Propagation</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRS 296</td>
<td>Topics:</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINA 1XX</td>
<td>Activity</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social Science, Natural Science, Fine Arts, or Humanities</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AGRS 210</td>
<td>Agricultural Marketing</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
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<td>13</td>
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### Bio-Agriculture Advising Sheet

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credit</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td><strong>First Year</strong></td>
<td></td>
<td></td>
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<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>MATH 108</td>
<td>Technical Mathematics</td>
<td>4</td>
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<tr>
<td>AGRS 100</td>
<td>Practical Crop Production</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRS 100L</td>
<td>Practical Crop Production Laboratory</td>
<td>1</td>
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</tr>
<tr>
<td>AGRS 125</td>
<td>Agricultural Machinery</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRS 105</td>
<td>Animal Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRS 102</td>
<td>Agriculture Economics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRS 103</td>
<td>Introduction to Entomology</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>AGRS 103L</td>
<td>Introduction to Entomology Laboratory</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>AGRS 205</td>
<td>Farm and Ranch Management</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social Science, Natural Science, Fine Arts, or Humanities</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td><strong>Second Year</strong></td>
<td></td>
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<tr>
<td><strong>Fall Semester</strong></td>
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<td>English Composition-GTCO1</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRS 240</td>
<td>Introduction to Soil Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>AGRS 240L</td>
<td>Introduction to Soil Science Laboratory</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>AGRS 260</td>
<td>Plant Propagation</td>
<td>3</td>
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<tr>
<td>AGRS 296</td>
<td>Topics:</td>
<td>3</td>
<td></td>
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<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KINA 1XX</td>
<td>Activity</td>
<td>1</td>
<td></td>
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<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
<td></td>
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<tr>
<td>Essential Learning - Social Science, Natural Science, Fine Arts, or Humanities</td>
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<tr>
<td>AGRS 210</td>
<td>Agricultural Marketing</td>
<td>3</td>
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</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td></td>
<td></td>
<td>13</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
TEACHER EDUCATION

(See Art (p. 166), Early Childhood Education (p. 329), Education: Teacher Licensure (p. 340), English (p. 388), History (p. 454), Kinesiology (p. 483), Liberal Arts (p. 495), Mathematics (p. 530), Music (p. 560), and Social Science (p. 650) for graduate and undergraduate programs)
THEATRE ARTS

Program Description
The theatre program offers rigorous conservatory-style training within a well-rounded liberal arts education at an affordable public school price. The program is constructed to help students meet the rigorous demands of a professional career in theatre and to provide a strong artistic foundation and practical experience. The program is led by a dynamic faculty composed of current and former Artistic Directors, Actors, Singers, Designers, and Dancers with deep connections to top industry professionals from coast to coast.

Acting/Directing students at CMU can expect a full sequence of Stanislavski-based acting classes in addition to training in Shakespeare, voice, speech, acting for the camera, script analysis, movement, stage combat, make-up, dance, and more. Unlike many other undergraduate programs, CMU also offers students the opportunity to not only take directing classes, but also direct full productions as part of the performance season. The program is large enough to tackle ambitious projects and yet small and flexible enough to tailor to students’ particular needs. Classes are intimate, with a small student to faculty ratio, allowing for significant individual attention, and each season’s productions are picked specifically for the current class of students. Opportunities to perform begin immediately in the freshman year in any of the dozens of annual productions.

The Music Theatre concentration represents one of the most unique programs offered in Colorado, stressing strong technical foundations in music, theatre, and dance. This approach creates “triple threats” and enhances a young performer’s potential for a career in musical theatre. To complement technique courses, students also participate in a wide variety of performance-related assignments.

The Design/Technology concentration exposes students to multiple areas of the visual and technical aspects of theatre, including costume design, scenography, lighting design and theatre technology. The first year centers on courses that develop aesthetic sensitivity and technical proficiency. Subsequent years are devoted to specialized studio work in the student’s chosen area of concentration. This foundation is supported by a series of skill-related courses in drafting, drawing and rendering techniques, model making, projection aesthetics, lighting console operation and computer-aided design. Costume skills courses include costume construction and fitting, fabric painting and fabric dyeing.

Through the theatre minor, students may choose courses from a broad range of theatrical endeavors including: acting, scenery, costumes, theatre history, the teaching of theatre, arts management and dramatic literature. Students will also have the opportunity to gain hands-on experience in the creation of two mainstage shows during the CMU theatre season. Training afforded by the study of theatre is also attractive to many other professions, including teaching, non-profit leadership, human resources, and law.

Special Requirements
Students seeking admission as theatre majors must successfully audition for acceptance into the acting/directing and music theatre concentrations. Admission to the University does not guarantee admission into one of these programs. Prospective theatre majors should consult the department’s website or contact the department directly for information regarding audition dates and requirements. Prospective students interested in departmental scholarships must audition no later than April 15 of the year they seek admission.

Musical Theatre students deficient in piano skills will be required to complete MUSA 130 and MUSA 131 as lower division elective courses.

Contact Information
Department of Theatre Arts
Moss Performing Arts Center 141
970.248.1233

Bachelors/Minors
• Acting/Directing, Theatre Arts (BFA) (p. 689)
• Design/Technology, Theatre Arts (BA) (p. 696)
• Music Theatre, Theatre Arts (BFA) (p. 692)
• Theatre (Minor) (p. 702)
• Theatre Arts, General (BA) (p. 699)

Acting/Directing, Theatre Arts (BFA)
Degree: Bachelor of Fine Arts
Major: Theatre Arts
Concentration: Acting/Directing
Program Code: 3265

About This Major . . .
The Department of Theatre Arts offers one of the most successful theatre training degree programs in Colorado. Theatre Arts majors choose from two distinct concentrations in the Bachelor of Fine Arts degree in Theatre Arts (Acting/Directing or Music Theatre), 2 concentrations of the BA (Theatre Arts or Design/Technology) or the BFA in Dance and acquire a sound understanding of the performing arts in state-of-the-art facilities.

The Acting/Directing concentration is constructed to help students meet the rigorous demands of a professional acting career and provide a strong foundation and practical experience for future directors. Beginning with the first semester, students enroll in performance courses taught by academically and professionally experienced faculty. Unlike larger institutions, acting opportunities in all productions at Colorado Mesa University are open to motivated and talented freshmen. In acting courses, students are exposed to techniques and approaches that are industry standards today. Training is grounded in Stanislavski, Cohen, and Chekhov. Voice and movement courses are complemented by performance opportunities in student in faculty directed productions. Acting students also audition for one act plays directed by directing students each year. Experimental and other challenging productions are offered at the Mesa Experimental Theatre.

Colorado Mesa is strategically located at the hub of a circle of important entertainment centers such as Aspen, Telluride, Moab, and Park City, Utah. There are regional theatres of international repute within driving distance, such as the Utah Shakespeare Festival, the Denver Center for the Performing Arts, and the Colorado Shakespeare Festival. There is a thriving theatrical scene in Grand Junction that offers opportunities for summer employment, including CMUs own Mesa Repertory Theatre. At Colorado Mesa, we are committed to the philosophy of training theatrical entrepreneurs. We offer low teacher-to-student ratios so that personal attention and mentoring are possible. Our many graduates in the industry have informed us that Colorado Mesa’s approach was invaluable.
For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Communicate verbally contemporary and enduring concepts concerning Human Culture through participation and/or observation of the performing arts and speech. (Specialized Knowledge/Communication)
2. Communicate non-verbally contemporary and enduring concepts concerning Human Culture through participation and/or observation of the performing arts and speech. (Specialized Knowledge/Communication)
3. Create progressively more challenging projects through the use of intellectual and/or practical skills. (Applied Learning)
4. Demonstrate teamwork and problem solving skills through collaboration and cooperation on creative projects. (Critical Thinking)
5. Demonstrate the knowledge, skills, and versatility of the discipline from conceptualization to application. (Applied Learning)

### Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

### Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>History</td>
<td>Select one History course</td>
<td>3</td>
</tr>
<tr>
<td>Humanities</td>
<td>Select one Humanities course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences</td>
<td>Select one Social and Behavioral Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>Select one Fine Arts course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course</td>
<td>3</td>
</tr>
<tr>
<td>Natural Sciences</td>
<td>Select one Natural Sciences course with a lab</td>
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</tbody>
</table>

1. Must receive a grade of “C” or better and must be completed by the time the student has 60 semester hours.

2. One course must include a lab.

### Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>KINE</td>
<td>Health and Wellness</td>
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<tr>
<td>Select one Activity course</td>
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<tr>
<td>ESSL</td>
<td>Maverick Milestone</td>
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</tr>
<tr>
<td>ESSL</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

### Foundation Courses

(18 semester hours, Theatre courses must be completed prior to the student’s junior year)
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 130</td>
<td>Script Analysis</td>
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</tr>
<tr>
<td>THEA 153</td>
<td>Acting I: Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 112</td>
<td>Voice and Diction</td>
<td>3</td>
</tr>
<tr>
<td>Select three of the following:</td>
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</tr>
<tr>
<td>THEA 102</td>
<td>Introduction to Theatre Technology: Stagecraft</td>
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</tr>
<tr>
<td>THEA 103</td>
<td>Introduction to Theatre Technology: Costume</td>
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</tr>
<tr>
<td>THEA 104</td>
<td>Introduction to Theatre Technology: Lighting</td>
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</tr>
<tr>
<td>THEA 105</td>
<td>Introduction to Theatre Technology: Sound Technology</td>
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</tr>
<tr>
<td>Select one class in a foreign language 1</td>
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</tr>
<tr>
<td>Total Semester Credit Hours</td>
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</tbody>
</table>

1 FLAS 114 & FLAS 115 will NOT fulfill this requirement. Must receive a grade of “C” or better.

Program Specific Degree Requirements

(52 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>THEA 117</td>
<td>Play Production</td>
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</tr>
<tr>
<td>or THEA 118</td>
<td>Play Production</td>
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</tr>
<tr>
<td>THEA 142</td>
<td>Make-up</td>
<td>3</td>
</tr>
<tr>
<td>THEA 145</td>
<td>Introduction to Dramatic Literature-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>THEA 156</td>
<td>Acting II: Contemporary Scenework</td>
<td>3</td>
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<tr>
<td>THEA 217</td>
<td>Play Production</td>
<td>1</td>
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<tr>
<td>or THEA 218</td>
<td>Play Production</td>
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<tr>
<td>THEA 253</td>
<td>Acting III: Stage Movement</td>
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<tr>
<td>THEA 256</td>
<td>Acting IV: Auditions</td>
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<tr>
<td>THEA 317</td>
<td>Play Production</td>
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<tr>
<td>or THEA 318</td>
<td>Play Production</td>
<td></td>
</tr>
<tr>
<td>THEA 331</td>
<td>Theatre History I: 400 B.C. to 1642</td>
<td>3</td>
</tr>
<tr>
<td>THEA 332</td>
<td>Theatre History II: From 1642 to the Present</td>
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</tr>
<tr>
<td>THEA 381</td>
<td>Directing I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 417</td>
<td>Play Production</td>
<td>1</td>
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<tr>
<td>or THEA 418</td>
<td>Play Production</td>
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<tr>
<td>THEA 401</td>
<td>Career Preparation</td>
<td>3</td>
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<tr>
<td>THEA 494</td>
<td>Performance Seminar: Acting/Directing and Musical Theatre Capstone</td>
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</tr>
<tr>
<td>THEA 353</td>
<td>Advanced Acting: Styles in Acting</td>
<td>3</td>
</tr>
<tr>
<td>THEA 454</td>
<td>Advanced Acting: Elizabethan Acting Techniques</td>
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<tr>
<td>Advanced Acting Select 9 semester hours of the following:</td>
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<tr>
<td>THEA 300</td>
<td>Advanced Acting: Stage Combat</td>
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<tr>
<td>THEA 354</td>
<td>Advanced Acting: The Meisner Approach</td>
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<tr>
<td>THEA 356</td>
<td>Advanced Acting: Dialects</td>
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<tr>
<td>THEA 369</td>
<td>Improvisation</td>
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</tr>
<tr>
<td>THEA 453</td>
<td>Advanced Acting: Acting for the Camera</td>
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</tr>
</tbody>
</table>

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours, including 40 upper division hours. 7 semester hours, additional hours of upper division hours may be needed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>THEA 459</td>
<td>Advanced Acting: Chekhov Technique</td>
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<table>
<thead>
<tr>
<th>Course Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>Theatre Options Select two of the following:</td>
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<tr>
<td>THEA 322</td>
<td>Stage Management</td>
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<tr>
<td>THEA 345</td>
<td>World Drama</td>
</tr>
<tr>
<td>THEA 380</td>
<td>Playwriting I</td>
</tr>
<tr>
<td>THEA 382</td>
<td>Directing II</td>
</tr>
<tr>
<td>THEA 411</td>
<td>American Drama</td>
</tr>
<tr>
<td>THEA 412</td>
<td>Contemporary Drama</td>
</tr>
<tr>
<td>ENGL 355</td>
<td>Shakespeare</td>
</tr>
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</table>

Performance Options

Select three of the following: 3

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>THEA 119</td>
<td>Technical Performance</td>
</tr>
<tr>
<td>THEA 120</td>
<td>Technical Performance</td>
</tr>
<tr>
<td>THEA 219</td>
<td>Technical Performance</td>
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<tr>
<td>THEA 220</td>
<td>Technical Performance</td>
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<tr>
<td>THEA 319</td>
<td>Technical Performance</td>
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<td>Technical Performance</td>
</tr>
<tr>
<td>THEA 419</td>
<td>Technical Performance</td>
</tr>
<tr>
<td>THEA 420</td>
<td>Technical Performance</td>
</tr>
<tr>
<td>THEA 147</td>
<td>Drama Performance</td>
</tr>
<tr>
<td>THEA 148</td>
<td>Drama Performance</td>
</tr>
<tr>
<td>THEA 247</td>
<td>Drama Performance</td>
</tr>
<tr>
<td>THEA 248</td>
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</tr>
<tr>
<td>THEA 347</td>
<td>Drama Performance</td>
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<tr>
<td>THEA 348</td>
<td>Drama Performance</td>
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<tr>
<td>THEA 447</td>
<td>Drama Performance</td>
</tr>
<tr>
<td>THEA 448</td>
<td>Drama Performance</td>
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<tr>
<td>DANC 156</td>
<td>Dance Performance</td>
</tr>
<tr>
<td>DANC 256</td>
<td>Dance Performance</td>
</tr>
<tr>
<td>DANC 356</td>
<td>Dance Performance</td>
</tr>
<tr>
<td>DANC 456</td>
<td>Dance Performance</td>
</tr>
</tbody>
</table>

DANC 156 | Dance Performance                        |                       |
| DANC 256 | Dance Performance                        |                       |
| DANC 356 | Dance Performance                        |                       |
| DANC 456 | Dance Performance                        |                       |

Total Semester Credit Hours 58

General Electives

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours, including 40 upper division hours. 7 semester hours, additional hours of upper division hours may be needed.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select electives</td>
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<td>Total Semester Credit Hours</td>
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</table>

First Year

Fall Semester

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
</tr>
<tr>
<td>Essential Learning - History</td>
<td>3</td>
</tr>
<tr>
<td>THEA 117</td>
<td>Play Production (fall or spring)</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------------------------------------------------</td>
</tr>
<tr>
<td>THEA 153</td>
<td>Acting I: Beginning Acting</td>
</tr>
<tr>
<td>THEA 102</td>
<td>Introduction to Theatre Technology: Stagecraft</td>
</tr>
<tr>
<td>THEA 103</td>
<td>Introduction to Theatre Technology: Costume</td>
</tr>
<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
</tr>
<tr>
<td>THEA 118</td>
<td>Play Production (fall or spring)</td>
</tr>
<tr>
<td>THEA 130</td>
<td>Script Analysis</td>
</tr>
<tr>
<td>THEA 145</td>
<td>Introduction to Dramatic Literature-GTAH1</td>
</tr>
<tr>
<td>THEA 156</td>
<td>Acting II: Contemporary Scenework</td>
</tr>
<tr>
<td>THEA 104</td>
<td>Introduction to Theatre Technology: Lighting</td>
</tr>
<tr>
<td>or THEA 105</td>
<td>Introduction to Theatre Technology: Sound Technology</td>
</tr>
<tr>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Second Year</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td>SPCH 112</td>
<td>Voice and Diction</td>
</tr>
<tr>
<td></td>
<td>Foundation Course - Foreign Language</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Fine Arts</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
</tr>
<tr>
<td>THEA 217</td>
<td>Play Production (fall or spring)</td>
</tr>
<tr>
<td>THEA 253</td>
<td>Acting III: Stage Movement</td>
</tr>
<tr>
<td></td>
<td><strong>Performance Option</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science</td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Humanities</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
</tr>
<tr>
<td>KINA Activity</td>
<td></td>
</tr>
<tr>
<td>THEA 218</td>
<td>Play Production (fall or spring)</td>
</tr>
<tr>
<td>THEA 256</td>
<td>Acting IV: Auditions</td>
</tr>
<tr>
<td></td>
<td><strong>Performance Option</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Third Year</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social/Behavioral Sciences</td>
</tr>
<tr>
<td>THEA 317</td>
<td>Play Production (fall or spring)</td>
</tr>
<tr>
<td>THEA 331</td>
<td>Theatre History I: 400 B.C. to 1642</td>
</tr>
<tr>
<td>THEA 381</td>
<td>Directing I</td>
</tr>
<tr>
<td>Theatre Option</td>
<td></td>
</tr>
<tr>
<td>THEA 353</td>
<td>Advanced Acting: Styles in Acting</td>
</tr>
<tr>
<td></td>
<td><strong>Performance Option</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Social/Behavioral Sciences</td>
</tr>
<tr>
<td>THEA 142</td>
<td>Make-up</td>
</tr>
<tr>
<td>THEA 318</td>
<td>Play Production (fall or spring)</td>
</tr>
<tr>
<td>THEA 332</td>
<td>Theatre History II: From 1642 to the Present</td>
</tr>
<tr>
<td>Advanced Acting Option</td>
<td></td>
</tr>
<tr>
<td>Theatre Option</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Fourth Year</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Fall Semester</strong></td>
</tr>
<tr>
<td></td>
<td>Essential Learning - Natural Science with Lab</td>
</tr>
<tr>
<td>THEA 401</td>
<td>Career Preparation</td>
</tr>
<tr>
<td>THEA 417</td>
<td>Play Production (fall or spring)</td>
</tr>
<tr>
<td>Advanced Acting Option</td>
<td></td>
</tr>
<tr>
<td>Electives</td>
<td><strong>Semester Credit Hours</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
</tr>
<tr>
<td>THEA 418</td>
<td>Play Production (fall or spring)</td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Music Theatre, Theatre Arts (BFA)**

Degree: Bachelor of Fine Arts
Major: Theatre Arts
Concentration: Music Theatre
Program Code: 3266

**About This Major . . .**

The Department of Theatre Arts offers one of the most successful theatre training degree programs in Colorado. Theatre Arts majors choose from two distinct concentrations in the Bachelor of Fine Arts degree in Theatre Arts (Acting/Directing or Music Theatre), two concentrations of the BA
(Theatre Arts or Design/Technology) or the BFA in Dance and acquire a sound understanding of the performing arts in state-of-the-art facilities.

The Music Theatre concentration provides strong technical foundations in Music, Theatre, and Dance. This approach is to create "triple threats" and enhance the young performer's potential for an exciting career in Musical Theatre. Students begin training with music theory and ear training, private voice instruction, choir and class piano. Acting I and II, Ballet and Tap are also included to complete first year academic requirements. To complement technical courses, students also participate in a wide variety of performance related assignments which include two Main stage productions, Experimental Theatre productions, choral ensembles, dance concerts, student directed one-acts, and technical crew assignments.

Students continue interdisciplinary course work in audition techniques and resume writing, as well as preparing and performing Vocal/Acting auditions and specialty performances throughout their next three years.

The Music Theatre concentration offers highly personalized instruction from skilled professors who are seasoned performers, coaches, directors, teachers, and technicians; working graduates cite this as the prime reason for their success in gaining employment in both local and national venues. Music Theatre graduates currently work on Broadway, Off-Broadway, in National Broadway tours, Regional Theatres, dinner theatres, cruise ships, and with Disney and Universal Studios.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajors.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Communicate verbally contemporary and enduring concepts concerning Human Culture through participation and/or observation of the performing arts and speech. (Specialized Knowledge/Communication Fluency)
2. Communicate non-verbally contemporary and enduring concepts concerning Human Culture through participation and/or observation of the performing arts and speech. (Specialized Knowledge/Communication Fluency)
3. Create progressively more challenging projects through the use of intellectual and/or practical skills. (Applied Learning)
4. Demonstrate teamwork and problem solving skills through collaboration and cooperation on creative projects. (Critical Thinking)
5. Demonstrate the knowledge, skills, and versatility of the discipline from conceptualization to application. (Applied Learning)

### Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See "Requirements for Undergraduate Degrees and Certificates" in the catalog for a complete list of graduation requirements.

### Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

### History

Select one History course

### Humanities

Select one Humanities course

### Social and Behavioral Sciences

Select one Social and Behavioral Sciences course

### Social and Behavioral Sciences

Select one Social and Behavioral Sciences course

### Fine Arts

Select one Fine Arts course

### Natural Sciences

Select one Natural Sciences course

Select one Natural Sciences course with a lab

Total Semester Credit Hours 31

1. Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.
2. One course must include a lab.
Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Wellness Requirement</td>
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</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Essential Learning Capstone</td>
<td>1</td>
</tr>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 6

1 Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses (12 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 142</td>
<td>Make-up</td>
<td>3</td>
</tr>
<tr>
<td>THEA 153</td>
<td>Acting I: Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 112</td>
<td>Voice and Diction</td>
<td>3</td>
</tr>
<tr>
<td>One class in a foreign language</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 12

1 FLAS 114 & FLAS 115 will not fulfill this requirement. Must receive a grade of “C” or higher.

Program Specific Degree Requirements (58 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

- Students deficient in piano skills will be required to complete MUSA 130 and MUSA 131. MUSA 130 and MUSA 131 may be taken as lower division electives or Musical Theatre Support Courses.
- Students deficient in theory skills will be required to complete MUSA 113 before taking MUSA 114. MUSA 113 may be taken as a lower division elective or a Musical Theatre Support Course.
- Students are required to participate in exit examinations and other programs deemed necessary to comply with the college accountability requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 117</td>
<td>Play Production</td>
<td>1</td>
</tr>
<tr>
<td>THEA 156</td>
<td>Acting II: Contemporary Scenework</td>
<td>3</td>
</tr>
<tr>
<td>THEA 253</td>
<td>Acting III: Stage Movement</td>
<td>3</td>
</tr>
<tr>
<td>THEA 255</td>
<td>Musical Theatre Techniques</td>
<td>3</td>
</tr>
<tr>
<td>THEA 341</td>
<td>Musical Theatre History and Literature</td>
<td>3</td>
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</table>

Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>THEA 401</td>
<td>Career Preparation</td>
<td>3</td>
</tr>
<tr>
<td>THEA 494</td>
<td>Performance Seminar: Acting/Directing and Musical Theatre Capstone</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 114</td>
<td>Theory I-Introduction</td>
<td>3</td>
</tr>
<tr>
<td>MUSA 116</td>
<td>Ear Training and Sightsinging I</td>
<td>2</td>
</tr>
<tr>
<td>MUSL 137</td>
<td>Voice</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 237</td>
<td>Voice</td>
<td>1</td>
</tr>
<tr>
<td>MUSL 337</td>
<td>Voice</td>
<td>1</td>
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<tr>
<td>MUSL 437</td>
<td>Voice</td>
<td>1</td>
</tr>
<tr>
<td>THEA 116</td>
<td>Music Theatre Workshop</td>
<td>1</td>
</tr>
<tr>
<td>THEA 216</td>
<td>Music Theatre Workshop</td>
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<tr>
<td>THEA 316</td>
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<tr>
<td>THEA 416</td>
<td>Music Theatre Workshop</td>
<td>1</td>
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</table>

Ballet Technique Courses

Select two of the following: 4

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<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 181</td>
<td>Ballet I</td>
<td>3</td>
</tr>
<tr>
<td>DANC 234</td>
<td>Ballet IIA</td>
<td>3</td>
</tr>
<tr>
<td>DANC 235</td>
<td>Ballet IIB</td>
<td>3</td>
</tr>
<tr>
<td>DANC 334</td>
<td>Ballet IIIA</td>
<td>3</td>
</tr>
<tr>
<td>DANC 335</td>
<td>Ballet IIIB</td>
<td>3</td>
</tr>
<tr>
<td>DANC 434</td>
<td>Ballet IVA</td>
<td>3</td>
</tr>
<tr>
<td>DANC 435</td>
<td>Ballet IVB</td>
<td>3</td>
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</tbody>
</table>

Jazz Technique Courses

Select two of the following: 4

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 182</td>
<td>Jazz I</td>
<td>3</td>
</tr>
<tr>
<td>DANC 232</td>
<td>Jazz IIA</td>
<td>3</td>
</tr>
<tr>
<td>DANC 233</td>
<td>Jazz IIB</td>
<td>3</td>
</tr>
<tr>
<td>DANC 332</td>
<td>Jazz IIIA</td>
<td>3</td>
</tr>
<tr>
<td>DANC 432</td>
<td>Jazz IVA</td>
<td>3</td>
</tr>
<tr>
<td>DANC 433</td>
<td>Jazz IVB</td>
<td>3</td>
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</table>

Tap Technique Courses

Select two of the following: 4

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANC 184</td>
<td>Tap I</td>
<td>3</td>
</tr>
<tr>
<td>DANC 236</td>
<td>Tap IIA</td>
<td>3</td>
</tr>
<tr>
<td>DANC 237</td>
<td>Tap IIIB</td>
<td>3</td>
</tr>
<tr>
<td>DANC 336</td>
<td>Tap IIIA</td>
<td>3</td>
</tr>
<tr>
<td>DANC 337</td>
<td>Tap IIIIB</td>
<td>3</td>
</tr>
<tr>
<td>DANC 436</td>
<td>Tap IV</td>
<td>3</td>
</tr>
<tr>
<td>DANC 437</td>
<td>Tap IVB</td>
<td>3</td>
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</table>

Performance Options

Select three of the following: 3

<table>
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<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>THEA 119</td>
<td>Technical Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEA 120</td>
<td>Technical Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEA 219</td>
<td>Technical Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEA 220</td>
<td>Technical Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEA 319</td>
<td>Technical Performance</td>
<td>3</td>
</tr>
<tr>
<td>THEA 320</td>
<td>Technical Performance</td>
<td>3</td>
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</tbody>
</table>
THEA 419  Technical Performance
THEA 420  Technical Performance
THEA 147  Drama Performance
THEA 148  Drama Performance
THEA 247  Drama Performance
THEA 248  Drama Performance
THEA 248  Drama Performance
THEA 447  Drama Performance
DANC 156  Dance Performance
DANC 256  Dance Performance
DANC 356  Dance Performance
DANC 456  Dance Performance

Music Theatre Support Courses
Select four semester hours from ANY Theatre, Music, or Dance course 4

Total Semester Credit Hours 58

General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours, including 40 upper division hours. 13 semester hours, additional hours of upper division may be needed.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
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<tbody>
<tr>
<td></td>
<td></td>
<td>4</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 13

Course Title Semester Credit Hours

<table>
<thead>
<tr>
<th>First Year</th>
<th>Fall Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTO01 3</td>
</tr>
<tr>
<td>MUSA 114</td>
<td>Theory I-Introduction 3</td>
</tr>
<tr>
<td>MUSA 116</td>
<td>Ear Training and Sightsinging I 2</td>
</tr>
<tr>
<td>MUSL 137</td>
<td>Voice 1</td>
</tr>
<tr>
<td>THEA 117</td>
<td>Play Production (fall or spring) 1</td>
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<tr>
<td>THEA 153</td>
<td>Acting I: Beginning Acting 3</td>
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<tr>
<td>DANC - Tap/Jazz/Ballet</td>
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<td>ENGL 112</td>
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<td>THEA 116</td>
<td>Music Theatre Workshop 1</td>
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<td>THEA 156</td>
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<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher) 3</td>
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<tbody>
<tr>
<td>Essential Learning - Fine Arts</td>
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<td>THEA 401</td>
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<tr>
<td>THEA 494</td>
<td>Performance Seminar: Acting/Directing and Musical Theatre Capstone 3</td>
</tr>
<tr>
<td>THEA 416</td>
<td>Music Theatre Workshop 1</td>
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<td>Music Theatre Support Course</td>
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<tr>
<td>MUSL 437</td>
<td>Voice 1</td>
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</table>

|     | Total Semester Credit Hours 120 |

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It
is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

**Design/Technology, Theatre Arts (BA)**

Degree: Bachelor of Arts
Major: Theatre Arts
Concentration: Design/Technology
Program Code: 3262

**About This Major . . .**

The Department of Theatre Arts offers one of the most successful theatre training degree programs in Colorado. Theatre Arts majors choose from two distinct concentrations in the Bachelor of Fine Arts degree in Theatre Arts (Acting/Directing or Music Theatre), 2 concentrations of the BA (Theatre Arts or Design/Technology) or the BFA in Dance and acquire a sound understanding of the performing arts in state-of-the-art facilities.

The Design/Technology concentration exposes students to the visual and technical aspects of Theatre, including Costume, Lighting, Sound, Scenery and Stage Management. The first year centers on courses that develop aesthetic sensitivity and technical proficiency. Subsequent years are devoted to studio work that continues to develop a student’s visual storytelling, creative problem solving and collaborative processes. Coursework focuses on the development of the student as a whole theatre professional, whether they lean toward technology or design areas, and will include classroom and hands-on production experiences in drafting, rendering, scenic and costume construction and craft work, and other methods of communicating, collaborating and contributing to the theatrical production process. The program culminates in a final design or technology project during the fourth year.

Students can expect personalized instruction and supervised “hands-on” design experiences that stretch from designs on paper to fully realized black box and mainstage productions. Graduates of the Design/Technology concentration will have the necessary skills for success in graduate studies or the professional theatre.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Communicate verbally contemporary and enduring concepts concerning Human Culture through participation and/or observation of the performing arts and speech. (Specialized Knowledge/Communication)
2. Communicate non-verbally contemporary and enduring concepts concerning Human Culture through participation and/or observation of the performing arts and speech. (Specialized Knowledge/Communication)
3. Create progressively more challenging projects through the use of intellectual and/or practical skills. (Applied Learning)
4. Demonstrate teamwork and problem solving skills through collaboration and cooperation on creative projects. (Critical Thinking)
5. Demonstrate the knowledge, skills, and versatility of the discipline from conceptualization to application. (Applied Learning)

**Institutional Degree Requirements**

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements
(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL</td>
<td>English Composition-GTCO1</td>
<td>3</td>
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<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO2</td>
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</tr>
<tr>
<td>MATH</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
<tr>
<td>THEA</td>
<td>Introduction to Theatre Technology: Stagecraft</td>
<td>2</td>
</tr>
<tr>
<td>THEA 102</td>
<td>Introduction to Theatre Technology: Costume</td>
<td>2</td>
</tr>
<tr>
<td>THEA 104</td>
<td>Introduction to Theatre Technology: Lighting</td>
<td>2</td>
</tr>
<tr>
<td>THEA 105</td>
<td>Introduction to Theatre Technology: Sound Technology</td>
<td>2</td>
</tr>
<tr>
<td>THEA 130</td>
<td>Script Analysis</td>
<td>3</td>
</tr>
<tr>
<td>THEA 153</td>
<td>Acting I: Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>One class in a foreign language</td>
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<td>Total Semester Credit Hours</td>
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Program Specific Degree Requirements
(56 semester hours, must maintain a 2.0 cumulative GPA or higher in coursework in this area.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA</td>
<td>Introduction to Dramatic Literature-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>THEA 145</td>
<td>Play Production</td>
<td>1</td>
</tr>
<tr>
<td>THEA 217</td>
<td>Theatrical Design Studio I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 202</td>
<td>Theatrical Design Studio II</td>
<td>3</td>
</tr>
<tr>
<td>THEA 317</td>
<td>Theatre History I: 400 B.C. to 1642</td>
<td>3</td>
</tr>
<tr>
<td>THEA 331</td>
<td>Theatre History II: From 1642 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>THEA 333</td>
<td>Art, Architecture and Fashion: Prehistory to the Present</td>
<td>3</td>
</tr>
<tr>
<td>THEA 381</td>
<td>Directing I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 401</td>
<td>Career Preparation</td>
<td>3</td>
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<tr>
<td>THEA 417</td>
<td>Play Production</td>
<td>1</td>
</tr>
<tr>
<td>THEA 418</td>
<td>Play Production</td>
<td>1</td>
</tr>
<tr>
<td>THEA 445</td>
<td>Senior Tech/Design Capstone</td>
<td>3</td>
</tr>
<tr>
<td>or THEA 446</td>
<td>Senior Tech/Design Capstone</td>
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</table>
| Design/Technology Emphasis Options
Select four of the following: 12

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>THEA 142</td>
<td>Make-up</td>
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<tr>
<td>THEA 303</td>
<td>Theatrical Design Studio III</td>
<td>3</td>
</tr>
<tr>
<td>THEA 323</td>
<td>Computer Aided Drafting for the Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THEA 325</td>
<td>Rigging and Special Effects</td>
<td>3</td>
</tr>
<tr>
<td>THEA 327</td>
<td>Multimedia Technology for the Theatre</td>
<td>3</td>
</tr>
<tr>
<td>THEA 343</td>
<td>Scene Design</td>
<td>3</td>
</tr>
<tr>
<td>THEA 344</td>
<td>Advanced Stage Lighting</td>
<td>3</td>
</tr>
<tr>
<td>THEA 360</td>
<td>Costume Construction II</td>
<td>3</td>
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<tr>
<td>THEA 400</td>
<td>Sound Design for Theatre</td>
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Other Lower Division Requirements

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<tr>
<td>KINE</td>
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<td>Play Production</td>
<td>1</td>
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<td>THEA 418</td>
<td>Play Production</td>
<td>1</td>
</tr>
<tr>
<td>THEA 445</td>
<td>Senior Tech/Design Capstone</td>
<td>3</td>
</tr>
<tr>
<td>or THEA 446</td>
<td>Senior Tech/Design Capstone</td>
<td>3</td>
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</table>

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.
### Design/Technology, Theatre Arts (BA)

#### Performance Options
Select eight of the following: 8

**Technical Performance**
- THEA 119 Technical Performance
- THEA 120 Technical Performance
- THEA 219 Technical Performance
- THEA 220 Technical Performance
- THEA 319 Technical Performance
- THEA 320 Technical Performance
- THEA 419 Technical Performance
- THEA 420 Technical Performance

**Drama Performance**
- THEA 147 Drama Performance
- THEA 148 Drama Performance
- THEA 247 Drama Performance
- THEA 248 Drama Performance
- THEA 347 Drama Performance
- THEA 348 Drama Performance
- THEA 447 Drama Performance
- THEA 448 Drama Performance

**Dance Performance**
- DANC 156 Dance Performance
- DANC 256 Dance Performance
- DANC 356 Dance Performance
- DANC 456 Dance Performance

---

### General Electives
All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours, including 40 upper division hours. 10 semester hours, additional upper division hours may be needed.

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<td>Recommended Electives</td>
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<tr>
<td>ARTE 101</td>
<td>Two-Dimensional Design-GTAH1</td>
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<td>ARTE 102</td>
<td>Three-Dimensional Design-GTAH1</td>
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<td>ARTE 115</td>
<td>Art Appreciation-GTAH1</td>
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<tr>
<td>ARTE 118</td>
<td>History of Art, Prehistory to Renaissance-GTAH1</td>
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<td>ARTE 119</td>
<td>History of Art, Renaissance to Present-GTAH1</td>
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<td>ARTG 122</td>
<td>Design It!</td>
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<td>Graphic Design I</td>
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<td>ARTG 221</td>
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<td>ARTS 221</td>
<td>Metallurgy</td>
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<td>ARTS 251</td>
<td>Life Drawing</td>
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<td>ARTS 252</td>
<td>Mixed Media Drawing</td>
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<tr>
<td>HMGT 101</td>
<td>Travel Industry</td>
<td>3</td>
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<td>HMGT 103</td>
<td>Travel and Tourism Marketing Techniques</td>
<td>3</td>
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<td>MANG 410</td>
<td>Effective Workplace Communication</td>
<td>3</td>
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<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
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<tr>
<td>MARK 332</td>
<td>Promotion</td>
<td>3</td>
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<td>MARK 340</td>
<td>Creating Marketing Materials</td>
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<td>MASS 140</td>
<td>Media Theory Introduction</td>
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<td>MASS 144</td>
<td>Multimedia Storytelling</td>
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<td>MASS 251</td>
<td>Mass Media: Advertising and Promotions</td>
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<td>Internship</td>
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<td>WELD 110</td>
<td>Shielded Metal Arc Welding</td>
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<td>WELD 151</td>
<td>Introduction to Welding</td>
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<tr>
<td>WELD 133</td>
<td>Fabrication &amp; Blueprints for Welders</td>
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<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
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<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
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<tr>
<td>KINA Activity</td>
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<td>THEA 153</td>
<td>Acting I: Beginning Acting</td>
<td>3</td>
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<td>THEA 102</td>
<td>Introduction to Theatre Technology: Stagecraft</td>
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<td>Introduction to Theatre Technology: Costume</td>
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<td>Second Year</td>
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<td>THEA 130</td>
<td>Script Analysis</td>
<td>3</td>
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<tr>
<td>THEA 145</td>
<td>Introduction to Dramatic Literature-GTAH1</td>
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<tr>
<td>THEA 104</td>
<td>Introduction to Theatre Technology: Lighting</td>
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</tr>
<tr>
<td>THEA 105</td>
<td>Introduction to Theatre Technology: Sound Technology</td>
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<td></td>
<td>Performance Option</td>
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<tr>
<td></td>
<td>Semester Credit Hours</td>
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<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td>Spring Semester</td>
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</tr>
<tr>
<td>Essential Learning - Natural Science with Lab</td>
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<tr>
<td>Foundation Course - Foreign Language</td>
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<tr>
<td>THEA 202</td>
<td>Theatrical Design Studio I</td>
<td>3</td>
</tr>
<tr>
<td>THEA 322</td>
<td>Stage Management</td>
<td>3</td>
</tr>
<tr>
<td>THEA 217</td>
<td>Play Production</td>
<td>1</td>
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<td></td>
<td>Performance Option</td>
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<td></td>
<td>Semester Credit Hours</td>
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<tbody>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
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</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
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<td>THEA 218</td>
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<td>THEA 203</td>
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<td>Elective</td>
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<tr>
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<td>Semester Credit Hours</td>
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</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended degree(s).

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Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Theatre Arts, General (BA)

Degree: Bachelor of Arts
Major: Theatre Arts (General)
Program Code: 3264

About This Major . . .

The Department of Theatre Arts offers one of the most successful theatre training degree programs in Colorado. Theatre Arts majors choose from two distinct concentrations in the Bachelor of Fine Arts degree in Theatre Arts (Acting/Directing or Music Theatre), two concentrations of the BA (Theatre Arts or Design/Technology) or the BFA in Dance and acquire a sound understanding of the performing arts in state-of-the-art facilities.

The Bachelor of Arts' primary goal is to encourage general theatre studies for students who may be interested in theatrical careers outside of performance or design/technology, such as producing, arts administration, teaching, dramaturgy, and playwriting. Beginning with the first semester, students follow a curriculum that offers a grounding in the fundamentals while allowing the flexibility to focus or move between dance, theatre, musical theatre or design/technical theatre options.

Colorado Mesa is strategically located at the hub of a circle of important entertainment centers such as Aspen, Telluride, Moab, and Park City, Utah. There are regional theatres of international repute within driving distance, such as the Utah Shakespeare Festival, the Denver Center for the Performing Arts, and the Colorado Shakespeare Festival. At Colorado Mesa, we are committed to the philosophy of training theatrical entrepreneurs. We offer low teacher-to-student ratios so that personal attention and mentoring are possible. Our many graduates in the industry have informed us that Colorado Mesa's approach was invaluable.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/career/whatmajor.html.

All CMU baccalaureate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Communicate verbally contemporary and enduring concepts concerning Human Culture through participation and/or observation of the performing arts and speech. (Specialized Knowledge/Communication)
2. Communicate non-verbally contemporary and enduring concepts concerning Human Culture through participation and/or observation of the performing arts and speech. (Specialized Knowledge/Communication)

3. Create progressively more challenging projects through the use of intellectual and/or practical skills. (Applied Learning)

4. Demonstrate teamwork and problem solving skills through collaboration and cooperation on creative projects. (Critical Thinking)

5. Demonstrate the knowledge, skills, and versatility of the discipline from conceptualization to application. (Applied Learning)

Institutional Degree Requirements

The following institutional degree requirements apply to all CMU baccalaureate degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 120 semester hours minimum.
- Students must complete a minimum of 30 of the last 60 hours of credit at CMU, with at least 15 semester hours in major discipline courses numbered 300 or higher.
- 40 upper-division credits (an alternative credit limit applies to the Bachelor of Applied Science degree).
- 2.00 cumulative GPA or higher in all CMU coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 30 semester credit hours for a baccalaureate degree. A maximum of 15 of the 30 credits may be for cooperative education, internships, and practica.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Essential Learning Requirements

(31 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
</tbody>
</table>

Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1</td>
<td>3</td>
</tr>
</tbody>
</table>

History

<table>
<thead>
<tr>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one History course</td>
<td></td>
</tr>
</tbody>
</table>

Humanities

<table>
<thead>
<tr>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one Humanities course</td>
<td></td>
</tr>
</tbody>
</table>

Social and Behavioral Sciences

<table>
<thead>
<tr>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences course</td>
<td></td>
</tr>
</tbody>
</table>

Fine Arts

<table>
<thead>
<tr>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one Fine Arts course</td>
<td></td>
</tr>
</tbody>
</table>

Natural Sciences

<table>
<thead>
<tr>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one Natural Sciences course</td>
<td></td>
</tr>
<tr>
<td>Select one Natural Sciences course with a lab</td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 31

1. Must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.
2. One course must include a lab.

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>Select one Activity course</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Essential Learning Capstone

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESSL 290</td>
<td>Maverick Milestone</td>
<td>3</td>
</tr>
<tr>
<td>ESSL 200</td>
<td>Essential Speech</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours: 6

1. Essential Learning Capstone must be taken after completion of the Essential Learning English and Mathematics requirements, and when a student has earned between 45 and 75 hours.

Foundation Courses

(27 semester hours)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 130</td>
<td>Script Analysis</td>
<td>3</td>
</tr>
<tr>
<td>THEA 153</td>
<td>Acting I: Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Select one of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THEA 141</td>
<td>Theatre Appreciation-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>DANC 115</td>
<td>Dance Appreciation-GTAH1</td>
<td></td>
</tr>
<tr>
<td>FINE 101</td>
<td>The Living Arts-GTAH1</td>
<td></td>
</tr>
<tr>
<td>Two consecutive classes in the same foreign language</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>Select three of the following:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THEA 102</td>
<td>Introduction to Theatre Technology: Stagecraft</td>
<td>6</td>
</tr>
<tr>
<td>THEA 103</td>
<td>Introduction to Theatre Technology: Costume</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Semester Credit Hours</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>THEA 104</td>
<td>Introduction to Theatre Technology Lighting</td>
<td>3</td>
</tr>
<tr>
<td>THEA 105</td>
<td>Introduction to Theatre Technology Sound</td>
<td>3</td>
</tr>
<tr>
<td>THEA 494</td>
<td>Performance Seminar: Acting/Directing and Musical Theatre Capstone</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 27

1. FLAS 114 & FLAS 115 will not fulfill this requirement.

**Program-Specific Degree Requirements**

*(29 semester hours)*

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>History</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select two of the following:</td>
<td>6</td>
</tr>
<tr>
<td>THEA 331</td>
<td>Theatre History I: 400 B.C. to 1642</td>
<td></td>
</tr>
<tr>
<td>THEA 332</td>
<td>Theatre History II: From 1642 to the Present</td>
<td></td>
</tr>
<tr>
<td>DANC 315</td>
<td>History and Philosophy of Dance I</td>
<td></td>
</tr>
<tr>
<td>DANC 316</td>
<td>History and Philosophy of Dance II</td>
<td></td>
</tr>
<tr>
<td>THEA 341</td>
<td>Musical Theatre History and Literature</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Practice</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select eight of the following:</td>
<td>8</td>
</tr>
<tr>
<td>THEA 147</td>
<td>Drama Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 148</td>
<td>Drama Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 247</td>
<td>Drama Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 248</td>
<td>Drama Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 347</td>
<td>Drama Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 348</td>
<td>Drama Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 447</td>
<td>Drama Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 448</td>
<td>Drama Performance</td>
<td></td>
</tr>
<tr>
<td>DANC 156</td>
<td>Dance Performance</td>
<td></td>
</tr>
<tr>
<td>DANC 256</td>
<td>Dance Performance</td>
<td></td>
</tr>
<tr>
<td>DANC 356</td>
<td>Dance Performance</td>
<td></td>
</tr>
<tr>
<td>DANC 456</td>
<td>Dance Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 119</td>
<td>Technical Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 120</td>
<td>Technical Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 219</td>
<td>Technical Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 220</td>
<td>Technical Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 319</td>
<td>Technical Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 320</td>
<td>Technical Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 419</td>
<td>Technical Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 420</td>
<td>Technical Performance</td>
<td></td>
</tr>
<tr>
<td>THEA 117</td>
<td>Play Production</td>
<td></td>
</tr>
<tr>
<td>THEA 118</td>
<td>Play Production</td>
<td></td>
</tr>
<tr>
<td>THEA 217</td>
<td>Play Production</td>
<td></td>
</tr>
<tr>
<td>THEA 218</td>
<td>Play Production</td>
<td></td>
</tr>
<tr>
<td>THEA 317</td>
<td>Play Production</td>
<td></td>
</tr>
<tr>
<td>THEA 318</td>
<td>Play Production</td>
<td></td>
</tr>
<tr>
<td>THEA 417</td>
<td>Play Production</td>
<td></td>
</tr>
<tr>
<td>THEA 418</td>
<td>Play Production</td>
<td></td>
</tr>
</tbody>
</table>

**Career Preparation and Capstone**

THEA 401 | Career Preparation | 3

**General Electives**

All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 120 hours. 27 semester hours.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>First Year</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 110</td>
<td>College Mathematics-GTMA1 (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>KINA Activity</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>THEA 153</td>
<td>Acting I: Beginning Acting</td>
<td>3</td>
</tr>
<tr>
<td>Foundation Course - Introduction to Theatre Technology</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Foundation Course - Introduction to Theatre Technology</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>THEA 130</td>
<td>Script Analysis</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following:</td>
<td>3</td>
</tr>
<tr>
<td>THEA 141</td>
<td>Theatre Appreciation-GTAH1</td>
<td></td>
</tr>
<tr>
<td>DANC 115</td>
<td>Dance Appreciation-GTAH1</td>
<td></td>
</tr>
<tr>
<td>FINE 101</td>
<td>The Living Arts-GTAH1</td>
<td></td>
</tr>
<tr>
<td>Foundation Course - Introduction to Theatre Technology</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Second Year</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fall Semester</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Natural Science with Lab</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Foundation Course - Foreign Language</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Practice Option</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Spring Semester</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Essential Learning - Social and Behavioral Sciences</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MARK 231</td>
<td>Principles of Marketing</td>
<td>3</td>
</tr>
<tr>
<td>Foundation Course - Foreign Language</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Restricted Elective</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Restricted Electives

9 semester hours chosen from THEA, DANC, or SPCH 9

Total Semester Credit Hours 9
Advising Process and DegreeWorks

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- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
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- Register for all needed courses and complete all requirements for each degree sought.

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Theatre (Minor)

Minor: Theatre
Program Code: M270

About This Minor... The Department of Theatre Arts is one of the most successful theatre training programs in Colorado. Through the Theatre Minor, students may choose courses from a broad range of theatrical endeavor including: acting, scenery, costumes, theatre history, the teaching of theatre, arts management, and dramatic literature. Students will also have the opportunity to gain hands on experience in the creation of shows in the CMU Theatre season. The training afforded by study of theatre is also attractive to many professions including teaching, human resources, and law.

Institutional Minor Requirements

The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
- Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
- At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
- At least 25 percent of the classes must be taken at CMU.
- 2.00 cumulative GPA or higher for the courses used for the minor.
- A minor is not a degree by itself and must be earned at the same time as a baccalaureate degree.
- A minor must be outside the major field of study.
- A student may earn up to five minors with any baccalaureate degree at CMU.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements sheet you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Minor Requirements

(22 semester hours)
Select one of the following courses: ¹

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 117</td>
<td>Play Production</td>
<td>1</td>
</tr>
<tr>
<td>THEA 118</td>
<td>Play Production</td>
<td></td>
</tr>
<tr>
<td>THEA 145</td>
<td>Introduction to Dramatic Literature-GTAH1</td>
<td>3</td>
</tr>
<tr>
<td>THEA 153</td>
<td>Acting I: Beginning Acting</td>
<td>3</td>
</tr>
</tbody>
</table>

Select six semester hours of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 102</td>
<td>Introduction to Theatre Technology: Stagecraft</td>
</tr>
<tr>
<td>THEA 103</td>
<td>Introduction to Theatre Technology: Costume</td>
</tr>
<tr>
<td>THEA 104</td>
<td>Introduction to Theatre Technology: Lighting</td>
</tr>
<tr>
<td>THEA 105</td>
<td>Introduction to Theatre Technology: Sound Technology</td>
</tr>
<tr>
<td>THEA 142</td>
<td>Make-up</td>
</tr>
<tr>
<td>THEA 333</td>
<td>Art, Architecture and Fashion: Prehistory to the Present</td>
</tr>
<tr>
<td>THEA 196/296/396/496</td>
<td>Topics</td>
</tr>
</tbody>
</table>

Select nine semester hours of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>THEA 322</td>
<td>Stage Management</td>
</tr>
<tr>
<td>THEA 331</td>
<td>Theatre History I: 400 B.C. to 1642</td>
</tr>
<tr>
<td>THEA 353</td>
<td>Advanced Acting: Styles in Acting</td>
</tr>
<tr>
<td>THEA 380</td>
<td>Playwriting I</td>
</tr>
<tr>
<td>THEA 401</td>
<td>Career Preparation</td>
</tr>
<tr>
<td>THEA 403</td>
<td>Methods of Teaching Drama and Speech</td>
</tr>
<tr>
<td>THEA 411</td>
<td>American Drama</td>
</tr>
<tr>
<td>THEA 412</td>
<td>Contemporary Drama</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 22

¹ Note: THEA 117 is Fall, THEA 118 is Spring.

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
TRANSPORTATION SERVICES

Program Description

The transportation services program covers the theory and fundamentals of operation, troubleshooting, diagnostic testing and repair of: drive trains, gas and diesel engines, hydraulic and air brakes, alignment, suspension and steering, climate control, electronic body and chassis controls, engine performance and emission systems, charging and starting systems, hybrid drive systems, and hydraulic and pneumatic systems; safety, technical mathematics, oral and written communication; and leadership skills. The student may choose one of two certificate and/or an Associate of Applied Science automotive degree; and a certificate and/or Associate of Applied Science degree in diesel technology. The emphasis of the programs is the repair of late model vehicles, with the emphasis on the computer controls.

The program is accredited by NATEF, National Automotive Technicians Education Foundation, as a Master Automotive Service Technician program. The courses prepare the student to take the ASE, Automotive Service Excellence, certification examinations offered by ASE, and administered at CMU quarterly.

By successfully completing a technical certificate or an Associate of Applied Science in Transportation Services, students will be prepared for careers as automotive/diesel technicians, parts and service distributors, industrial sales representatives, service managers and business owners in the transportation services industry.

Special Requirements

Excellent dexterity, eye-hand coordination, and critical thinking is a plus for a technician. Proper selection, care and safe use of power, hand and diagnostic tools, and equipment is emphasized.

Contact Information

Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates

- Advanced Automotive Service Technician, Transportation Services (AAS) (p. 704)
- Diesel Technology, Transportation Services (AAS) (p. 706)

Certificates

- Automotive Service Technician, Transportation Services (Technical Certificate) (p. 708)
- Diesel Mechanics, Transportation Services (Technical Certificate) (p. 710)
- Light Duty Automotive Foundations II, Transportation Services (Technical Certificate) (p. 713)
- Light Duty Automotive Technician, Transportation Services (Technical Certificate) (p. 715)

Advanced Automotive Service Technician, Transportation Services (AAS)

Degree: Associate of Applied Science
Major: Transportation Services
Emphasis: Advanced Automotive Service Technician
Program Code: 1386

About This Major . . .

In the Associate of Applied Science degree with a major in Transportation Services, and emphasis in Advanced Automotive Service Technician, students learn the fundamentals of electronics, starters, ignition, and charging systems, air conditioning, cooling and heating systems, safety, technical math, use of technical manuals, basic management skills, written and oral communication skills, and leadership. Advanced coursework includes an in-depth study of internal combustion engine disassembly, repair, reassembly, diagnosis and troubleshooting, suspension systems, and alignment and wheel balance. The Advanced Automotive Service Technician emphasis prepares students for careers as automotive technicians, parts and service distributors, industrial sales representatives, service managers, and business owners in the transportation services industry.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a repair technician to properly repair vehicles. (Communication Fluency)
2. Apply Mathematical concepts and practices that are required to properly perform vehicle repair competencies to an (ASE) Automotive Service Excellence standard. (Quantitative Fluency)
3. Evaluate evidence discovered during the diagnosis and troubleshooting of vehicles and apply those finding to strategies to properly repair the vehicle. (Critical Thinking)
4. Describe the scope and application of principle features of the field of study, including core practices in the vehicle repair industry. (Specialized Knowledge)
5. Demonstrate mastery of the current terminology in the Transportation Service industry and generate substantially error-free products or processes that define the duties of a repair technician. (Specialized Knowledge)
6. Perform vehicle repair practices that meet or exceed industry standards as defined by (ASE) Automotive Service Excellence. (Applied Learning)
7. Demonstrate personal and professional ethical behavior as applied to the industry. (Applied Learning)
8. Define the legal and ethical standards required of the vehicle repair industry. (Applied Learning)
Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:
- 70 semester hours total for the AAS, Transportation Services - Advanced Automotive Service Technician.

Essential Learning Requirements
(15 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td></td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Essential Learning Core Courses
Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSTA 245</td>
<td>Manual Drive Trains</td>
<td>4</td>
</tr>
<tr>
<td>or TSTA 247</td>
<td>Automatic Drive Train Service</td>
<td></td>
</tr>
<tr>
<td>TSTA 265</td>
<td>Engine Control Services</td>
<td>3</td>
</tr>
<tr>
<td>TSTA 267</td>
<td>Body Controls</td>
<td>3</td>
</tr>
<tr>
<td>TSTA 275</td>
<td>Alignment and Suspension Service</td>
<td>3</td>
</tr>
<tr>
<td>TSTA 287</td>
<td>Engine Performance and Emissions</td>
<td>3</td>
</tr>
<tr>
<td>CADT 101</td>
<td>Introduction to Computers</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours
45

Program Specific Degree Requirements
(53 semester hours, must earn a "C" or better in each course.)

- Additional expenses - Students entering the program may be required to purchase or have hand tools and appropriate clothing and safety gear with a total cost of approximately $2500.00. This does not include cost of required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSTC 100</td>
<td>Introduction to Transportation Services</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 101</td>
<td>Vehicle Service and Inspection</td>
<td>3</td>
</tr>
<tr>
<td>TSTC 130</td>
<td>Electrical I</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 160</td>
<td>Electrical II</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 170</td>
<td>Chassis Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 171</td>
<td>Brakes I</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 120</td>
<td>Industrial Safety Practices</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 135</td>
<td>Starting and Charging Systems</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 175</td>
<td>Brakes II</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 195</td>
<td>Climate Control</td>
<td>4</td>
</tr>
<tr>
<td>TSTG 220</td>
<td>Workplace Skills</td>
<td>3</td>
</tr>
<tr>
<td>TSTG 275</td>
<td>ABS Diagnostics</td>
<td>2</td>
</tr>
<tr>
<td>TSTA 245</td>
<td>Manual Drive Trains</td>
<td>4</td>
</tr>
<tr>
<td>or TSTA 247</td>
<td>Automatic Drive Train Service</td>
<td></td>
</tr>
<tr>
<td>TSTA 265</td>
<td>Engine Control Services</td>
<td>3</td>
</tr>
<tr>
<td>TSTA 267</td>
<td>Body Controls</td>
<td>3</td>
</tr>
<tr>
<td>TSTA 275</td>
<td>Alignment and Suspension Service</td>
<td>3</td>
</tr>
<tr>
<td>TSTA 287</td>
<td>Engine Performance and Emissions</td>
<td>3</td>
</tr>
<tr>
<td>CADT 101</td>
<td>Introduction to Computers</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours
45

Restricted Electives
Select a minimum of 8 semester hours of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSTA 286</td>
<td>Hybrid Vehicles</td>
<td>8</td>
</tr>
</tbody>
</table>
TSTA 289  Alternative Fueled Vehicles
TSTD 215  Diesel Engine Reconditioning
TSTD 265  Diesel Engine Controls
TSTG 115  Gas Engine Reconditioning
TSTG 240  Job Shop
TSTG 270  Practical Applications

Total Semester Credit Hours 8

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSTC 100</td>
<td>Introduction to Transportation Services</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 171</td>
<td>Brakes I</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 175</td>
<td>Brakes II</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 170</td>
<td>Chassis Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 120</td>
<td>Industrial Safety Practices</td>
<td>2</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>KINA Activity course</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Semester Credit Hours</strong></td>
<td><strong>12</strong></td>
</tr>
<tr>
<td><strong>Fall Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSTC 130</td>
<td>Electrical I</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 160</td>
<td>Electrical II</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 135</td>
<td>Starting and Charging Systems</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 101</td>
<td>Vehicle Service and Inspection</td>
<td>3</td>
</tr>
<tr>
<td>CADT 101</td>
<td>Introduction to Computers</td>
<td>1</td>
</tr>
<tr>
<td>Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>Semester Credit Hours</strong></td>
<td><strong>16</strong></td>
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<td><strong>Second Year</strong></td>
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<td><strong>Fall Semester</strong></td>
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<td></td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td>1</td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td>1</td>
</tr>
<tr>
<td>TSTA 245</td>
<td>Manual Drive Trains or Automatic Drive Train Service</td>
<td>4</td>
</tr>
<tr>
<td>TSTG 275</td>
<td>ABS Diagnostics</td>
<td>2</td>
</tr>
<tr>
<td>TSTA 265</td>
<td>Engine Control Services</td>
<td>3</td>
</tr>
<tr>
<td>TSTA 275</td>
<td>Alignment and Suspension Service</td>
<td>3</td>
</tr>
<tr>
<td>TSTG 220</td>
<td>Workplace Skills</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Semester Credit Hours</strong></td>
<td><strong>18</strong></td>
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<tr>
<td><strong>Spring Semester</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSTA 267</td>
<td>Body Controls</td>
<td>3</td>
</tr>
<tr>
<td>TSTA 287</td>
<td>Engine Performance and Emissions</td>
<td>3</td>
</tr>
<tr>
<td>TSTG 195</td>
<td>Climate Control</td>
<td>4</td>
</tr>
<tr>
<td>TSTD/D/G - Restricted Electives</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>Semester Credit Hours</strong></td>
<td><strong>18</strong></td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>70</strong></td>
<td></td>
</tr>
</tbody>
</table>

 Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Diesel Technology, Transportation Services (AAS)

Degree: Associate of Applied Science
Major: Transportation Services
Emphasis: Diesel Technology
Program Code: 1342

About This Major . . .

In the Associate of Applied Science degree with a major in Transportation Services and emphasis in Diesel Technology, students learn the fundamentals of electronics, starters, ignition, and charging systems; air conditioning, cooling and heating systems; safety; technical math; use of technical manuals; basic management skills; written and oral communication skills; and leadership. Advanced coursework includes an in-depth study of internal combustion engine disassembly, repair, reassembly, diagnosis and troubleshooting; suspension systems; and alignment and wheel balance. The diesel technology emphasis concentrates on on-road trucks and light duty diesel-powered vehicles. Students will be prepared for careers as diesel technicians, parts and service distributors, industrial sales representatives, service managers, and business owners in the transportation services industry.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and
specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a repair technician to properly repair vehicles. (Communication Fluency)
2. Apply Mathematical concepts and practices that are required to properly perform vehicle repair competencies to an (ASE) Automotive Service Excellence standard. (Quantitative Fluency)
3. Evaluate evidence discovered during the diagnosis and troubleshooting of vehicles and apply those finding to strategies to properly repair the vehicle. (Critical Thinking)
4. Describe the scope and application of principle features of the field of study, including core practices in the vehicle repair industry. (Specialized Knowledge)
5. Demonstrate mastery of the current terminology in the Transportation Service industry and generate substantially error-free products or processes that define the duties of a repair technician. (Specialized Knowledge)
6. Perform vehicle repair practices that meet or exceed industry standards as defined by (ASE) Automotive Service Excellence. (Applied Learning)
7. Demonstrate personal and professional ethical behavior as applied to the industry. (Applied Learning)
8. Define the legal and ethical standards required of the vehicle repair industry. (Specialized Knowledge)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:
- 62 semester hours total for the AAS, Transportation Services - Diesel Technology.

Essential Learning Requirements
(15 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following courses:</td>
<td></td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td></td>
</tr>
</tbody>
</table>

Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 107</td>
<td>Career Math (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Essential Learning Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 15

Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>2</td>
</tr>
</tbody>
</table>

Program Specific Degree Requirements
(45 semester hours, must earn a “C” or better in each course.)

- Additional expenses - Students entering the program may be required to purchase or have hand tools and appropriate clothing and safety gear with a total cost of approximately $2500.00. This does not include cost of required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSTC 100</td>
<td>Introduction to Transportation Services</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 101</td>
<td>Vehicle Service and Inspection</td>
<td>3</td>
</tr>
<tr>
<td>TSTC 130</td>
<td>Electrical I</td>
<td>2</td>
</tr>
<tr>
<td>Code</td>
<td>Title</td>
<td>Semester Credit Hours</td>
</tr>
<tr>
<td>--------</td>
<td>-------------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>TSTC 160</td>
<td>Electrical II</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 170</td>
<td>Chassis Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 171</td>
<td>Brakes I</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 175</td>
<td>Brakes II</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 195</td>
<td>Climate Control</td>
<td>4</td>
</tr>
<tr>
<td>TSTG 120</td>
<td>Industrial Safety Practices</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 150</td>
<td>Fluid Power</td>
<td>3</td>
</tr>
<tr>
<td>TSTG 220</td>
<td>Workplace Skills</td>
<td>3</td>
</tr>
<tr>
<td>TSTG 135</td>
<td>Starting and Charging Systems</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>29</strong></td>
</tr>
</tbody>
</table>

### Restricted Electives

Select 16 semester hours of the following: **16**

- TSTA 245 Manual Drive Trains
- TSTA 267 Body Controls
- TSTA 275 Alignment and Suspension Service
- TSTA 287 Engine Performance and Emissions
- TSTA 289 Alternative Fueled Vehicles
- TSTD 177 Air Systems Repair and Service
- TSTD 215 Diesel Engine Reconditioning
- TSTD 265 Diesel Engine Controls
- TSTD 275 Heavy Duty Suspension
- TSTG 115 Gas Engine Reconditioning
- TSTG 240 Job Shop
- TSTG 270 Practical Applications
- WELD 151 Introduction to Welding

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>16</strong></td>
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### Course Title

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td></td>
<td><strong>First Year</strong></td>
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<tr>
<td></td>
<td><strong>Fall Semester</strong></td>
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<tr>
<td>TSTC 100</td>
<td>Introduction to Transportation Services</td>
<td>2</td>
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<tr>
<td>TSTC 171</td>
<td>Brakes I</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 175</td>
<td>Brakes II</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 170</td>
<td>Chassis Fundamentals</td>
<td>2</td>
</tr>
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<td>TSTG 120</td>
<td>Industrial Safety Practices</td>
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<td>MATH 107</td>
<td>Career Math (or higher)</td>
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<td><strong>Spring Semester</strong></td>
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<td>Vehicle Service and Inspection</td>
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</tr>
<tr>
<td>TSTC 130</td>
<td>Electrical I</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 160</td>
<td>Electrical II</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 195</td>
<td>Climate Control</td>
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<td>TSTG 150</td>
<td>Fluid Power</td>
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<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
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<tr>
<td></td>
<td><strong>Second Year</strong></td>
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<td></td>
<td><strong>Fall Semester</strong></td>
<td></td>
</tr>
<tr>
<td>Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course</td>
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<td></td>
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<tr>
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<td>Select one of the following:</td>
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</tr>
<tr>
<td></td>
<td>ENGL 112 English Composition-GTCO2</td>
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</table>

### Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

### Automotive Service Technician, Transportation Services (Technical Certificate)

Degree: Technical Certificate
Program of Study: Transportation Services
Specialization: Automotive Service Technician  
Program Code: 1312

About This Major . . .

Students learn the fundamentals of electronics, starters, ignition, and charging systems, air conditioning, cooling and heating systems, safety, technical math, use of technical manuals; basic management skills, written and oral communication skills, and leadership. Advanced coursework includes an in-depth study of internal combustion engine disassembly, repair, reassembly, diagnosis and troubleshooting, suspension systems, and alignment and wheel balance. Career options include automotive/diesel technician, parts and service distributor, industrial sales representative and service manager.

*Students must complete the Light Duty Technician technical certificate before enrolling in this technical certificate.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a repair technician to properly repair vehicles. (Communication Fluency)
2. Apply Mathematical concepts and practices that are required to properly perform vehicle repair competencies to an (ASE) Automotive Service Excellence standard. (Quantitative Fluency)
3. Evaluate evidence discovered during the diagnosis and troubleshooting of vehicles and apply those finding to strategies to properly repair the vehicle. (Critical Thinking)
4. Describe the scope and application of principle features of the field of study, including core practices in the vehicle repair industry. (Specialized Knowledge)
5. Demonstrate mastery of the current terminology in the Transportation Service industry and generate substantially error-free products or processes that define the duties of a repair technician. (Specialized Knowledge)
6. Perform vehicle repair practices that meet or exceed industry standards as defined by (ASE) Automotive Service Excellence. (Applied Learning)
7. Demonstrate personal and professional ethical behavior as applied to the industry. (Applied Learning)
8. Define the legal and ethical standards required of the vehicle repair industry. (Specialized Knowledge)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(40 semester hours)

Students must complete the Light Duty Technician technical certificate before enrolling in this technical certificate.

Additional Expenses – Students entering the program may be required to purchase or have hand tools and appropriate clothing and safety gear with a total cost of approximately $2,500.00. This does not include cost of required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSTG 220</td>
<td>Workplace Skills</td>
<td>3</td>
</tr>
<tr>
<td>TSTA 245</td>
<td>Manual Drive Trains</td>
<td>4</td>
</tr>
<tr>
<td>or TSTA 247</td>
<td>Automatic Drive Train Service</td>
<td></td>
</tr>
<tr>
<td>TSTG 275</td>
<td>ABS Diagnostics</td>
<td>2</td>
</tr>
<tr>
<td>TSTA 275</td>
<td>Alignment and Suspension Service</td>
<td>3</td>
</tr>
<tr>
<td>TSTA 265</td>
<td>Engine Control Services</td>
<td>3</td>
</tr>
<tr>
<td>TSTC 100</td>
<td>Introduction to Transportation Services</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 101</td>
<td>Vehicle Service and Inspection</td>
<td>3</td>
</tr>
<tr>
<td>TSTC 130</td>
<td>Electrical I</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 160</td>
<td>Electrical II</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 170</td>
<td>Chassis Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 171</td>
<td>Brakes I</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 175</td>
<td>Brakes II</td>
<td>2</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math</td>
<td>3</td>
</tr>
<tr>
<td>TSTG 120</td>
<td>Industrial Safety Practices</td>
<td>2</td>
</tr>
<tr>
<td>CADT 101</td>
<td>Introduction to Computers</td>
<td>1</td>
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</table>

Total Semester Credit Hours 36
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Diesel Mechanics, Transportation Services (Technical Certificate)

Degree: Technical Certificate
Program of Study: Transportation Services
Specialization: Diesel Mechanics
Program Code: 1347

About This Major . . .

Students learn the fundamentals of electronics, starters, ignition, and charging systems; air conditioning, cooling and heating systems; safety; technical math; use of technical manuals; basic management skills; written and oral communication skills; and leadership. Advanced coursework includes an in-depth study of internal combustion engine disassembly, repair, reassembly, diagnosis and troubleshooting; suspension systems; and alignment and wheel balance. The diesel mechanics specialization concentrates on on-road trucks and light duty diesel-powered vehicles. Career options include automotive/diesel technician, parts and service distributor, industrial sales representative, and service manager.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a repair technician to properly repair vehicles. (Communication Fluency)
2. Apply Mathematical concepts and practices that are required to properly perform vehicle repair competencies to an (ASE) Automotive Service Excellence standard. (Quantitative Fluency)
3. Evaluate evidence discovered during the diagnosis and troubleshooting of vehicles and apply those findings to strategies to properly repair the vehicle. (Critical Thinking)

4. Describe the scope and application of principle features of the field of study, including core practices in the vehicle repair industry. (Specialized Knowledge)

5. Demonstrate mastery of the current terminology in the Transportation Service industry and generate substantially error-free products or processes that define the duties of a repair technician. (Specialized Knowledge)

6. Perform vehicle repair practices that meet or exceed industry standards as defined by (ASE) Automotive Service Excellence. (Applied Learning)

7. Demonstrate personal and professional ethical behavior as applied to the industry. (Applied Learning)

8. Define the legal and ethical standards required of the vehicle repair industry. (Specialized Knowledge)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(32 semester hours)

- Additional Expenses – Students entering the program may be required to purchase or have hand tools and appropriate clothing and safety gear with a total cost of approximately $2,500.00. This does not include cost of required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<td>TSTC 100</td>
<td>Introduction to Transportation Services</td>
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<tr>
<td>TSTC 101</td>
<td>Vehicle Service and Inspection</td>
<td>3</td>
</tr>
<tr>
<td>TSTC 130</td>
<td>Electrical I</td>
<td>2</td>
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<tr>
<td>TSTC 160</td>
<td>Electrical II</td>
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<tr>
<td>TSTC 170</td>
<td>Chassis Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 171</td>
<td>Brakes I</td>
<td>2</td>
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<td>TSTC 175</td>
<td>Brakes II</td>
<td>2</td>
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<tr>
<td>TSTG 195</td>
<td>Climate Control</td>
<td>4</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math</td>
<td>3</td>
</tr>
<tr>
<td>TSTG 120</td>
<td>Industrial Safety Practices</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 150</td>
<td>Fluid Power</td>
<td>3</td>
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Total Semester Credit Hours 27

Restricted Electives

Select 5 semester hours of the following:

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<tr>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>TSTA 265</td>
<td>Engine Control Services</td>
<td>3</td>
</tr>
<tr>
<td>TSTA 267</td>
<td>Body Controls</td>
<td>2</td>
</tr>
<tr>
<td>TSTD 177</td>
<td>Air Systems Repair and Service</td>
<td>2</td>
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<tr>
<td>TSTD 215</td>
<td>Diesel Engine Reconditioning</td>
<td>2</td>
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<tr>
<td>TSTD 265</td>
<td>Diesel Engine Controls</td>
<td>2</td>
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<tr>
<td>TSTD 275</td>
<td>Heavy Duty Suspension</td>
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<tr>
<td>TSTG 240</td>
<td>Job Shop</td>
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<tr>
<td>TSTG 135</td>
<td>Starting and Charging Systems</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 270</td>
<td>Practical Applications</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 220</td>
<td>Workplace Skills</td>
<td>3</td>
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<tr>
<td>WELD 151</td>
<td>Introduction to Welding</td>
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Total Semester Credit Hours 5

First Year Fall Semester

<table>
<thead>
<tr>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>TSTC 100</td>
<td>Introduction to Transportation Services</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 170</td>
<td>Chassis Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 171</td>
<td>Brakes I</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 175</td>
<td>Brakes II</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 120</td>
<td>Industrial Safety Practices</td>
<td>2</td>
</tr>
<tr>
<td>TSTA/G/D - Restricted Electives</td>
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<td></td>
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<tr>
<td>MATH 107</td>
<td>Career Math</td>
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</table>

Total Semester Credit Hours 16

First Year Spring Semester

<table>
<thead>
<tr>
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<td>TSTC 101</td>
<td>Vehicle Service and Inspection</td>
<td>3</td>
</tr>
<tr>
<td>TSTC 130</td>
<td>Electrical I</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 160</td>
<td>Electrical II</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 150</td>
<td>Fluid Power</td>
<td>3</td>
</tr>
<tr>
<td>TSTG 195</td>
<td>Climate Control</td>
<td>4</td>
</tr>
</tbody>
</table>

All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a repair technician to properly repair vehicles. (Communication Fluency)
2. Apply Mathematical concepts and practices that are required to properly perform vehicle repair competencies to an (ASE) Automotive Service Excellence standard. (Quantitative Fluency)
3. Evaluate evidence discovered during the diagnosis and troubleshooting of vehicles and apply those finding to strategies to properly repair the vehicle. (Critical Thinking)
4. Describe the scope and application of principle features of the field of study, including core practices in the vehicle repair industry. (Specialized Knowledge)
5. Demonstrate mastery of the current terminology in the Transportation Service industry and generate substantially error-free products or processes that define the duties of a repair technician. (Specialized Knowledge)
6. Perform vehicle repair practices that meet or exceed industry standards as defined by (ASE) Automotive Service Excellence. (Applied Learning)
7. Demonstrate personal and professional ethical behavior as applied to the industry. (Applied Learning)
8. Define the legal and ethical standards required of the vehicle repair industry. (Specialized Knowledge)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

<table>
<thead>
<tr>
<th>TSTA/G/D - Restricted Electives</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester Credit Hours</td>
<td>16</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td>32</td>
</tr>
</tbody>
</table>

Light Duty Automotive Foundations I, Transportation Services (Technical Certificate)

Degree: Technical Certificate
Program of Study: Transportation Services
Specialization: Light Duty Automotive Technician Foundations I
Program Code: 1119

About This Major . . .

Students learn the fundamentals of electronics, starters, ignition, and charging systems, air conditioning, brakes, suspension and steering, cooling and heating systems, safety, technical math, use of technical manuals, basic management, communication and leadership skills. Career options include light duty automotive/diesel technician, parts and service distributor.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(9 semester hours, must earn a grade of "C" or better in each course.)

• Additional Expenses – Students entering the program may be required to purchase or have hand tools and appropriate clothing and safety gear with a total cost of approximately $2,500.00. This does not include cost of required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased.

• This program is a required precursor to the Technical Certificate in Light Duty Automotive Technician Foundations II.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.

• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.

• Submit the “Intent to Graduate” form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.

• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Light Duty Automotive Foundations II, Transportation Services (Technical Certificate)

Degree: Technical Certificate
Program of Study: Transportation Services
Specialization: Light Duty Automotive Technician Foundations II
Program Code: 1120

About This Major . . .

Students learn the fundamentals of electronics, starters, ignition, and charging systems, air conditioning, brakes, suspension and steering, cooling and heating systems, safety, technical math, use of technical manuals, basic management, communication and leadership skills.

Career options include light duty automotive/diesel technician, parts and service distributor.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a repair technician to properly repair vehicles. (Communication Fluency)

2. Apply Mathematical concepts and practices that are required to properly perform vehicle repair competencies to an (ASE) Automotive Service Excellence standard. (Quantitative Fluency

3. Evaluate evidence discovered during the diagnosis and troubleshooting of vehicles and apply those finding to strategies to properly repair the vehicle. (Critical Thinking)

4. Describe the scope and application of principle features of the field of study, including core practices in the vehicle repair industry. (Specialized Knowledge)

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.
5. Demonstrate mastery of the current terminology in the Transportation Service industry and generate substantially error-free products or processes that define the duties of a repair technician. (Specialized Knowledge)

6. Perform vehicle repair practices that meet or exceed industry standards as defined by (ASE) Automotive Service Excellence. (Applied Learning)

7. Demonstrate personal and professional ethical behavior as applied to the industry. (Applied Learning)

8. Define the legal and ethical standards required of the vehicle repair industry. (Specialized Knowledge)

**Institutional Certificate Requirements**

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Certificate Requirements**

(8 semester hours, must earn grade of “C” or better in each course.)

- Additional Expenses – Students entering the program may be required to purchase or have hand tools and appropriate clothing and safety gear with a total cost of approximately $2,500.00. This does not include cost of required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.
- The 9 semester hour Technical Certificate in Transportation Services Light Duty Automotive Technician Foundations I must be completed prior to Foundations II.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSTC 160</td>
<td>Electrical II</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 170</td>
<td>Chassis Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 171</td>
<td>Brakes I</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 175</td>
<td>Brakes II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSTC 171</td>
<td>Brakes I</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 160</td>
<td>Electrical II</td>
<td>2</td>
</tr>
<tr>
<td>Spring Semester</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TSTG 175</td>
<td>Brakes II</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 170</td>
<td>Chassis Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>8</td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.
If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

**Light Duty Automotive Technician, Transportation Services (Technical Certificate)**

Degree: Technical Certificate  
Program of Study: Transportation Services  
Specialization: Light Duty Automotive Technician  
Program Code: 1106

**About This Major . . .**

Students learn the fundamentals of electronics, starters, ignition, and charging systems, air conditioning, brakes, suspension and steering, cooling and heating systems, safety, technical math, use of technical manuals, basic management, communication and leadership skills. Career options include light duty automotive/diesel technician, parts and service distributor.

For more information on what you can do with this major, go to [http://www.coloradomesa.edu/wccc/programs.html](http://www.coloradomesa.edu/wccc/programs.html)

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply principles of grammar and vocabulary in the documentation required to perform the duties of a repair technician to properly repair vehicles. (Communication Fluency)
2. Apply Mathematical concepts and practices that are required to properly perform vehicle repair competencies to an (ASE) Automotive Service Excellence standard. (Quantitative Fluency)
3. Evaluate evidence discovered during the diagnosis and troubleshooting of vehicles and apply those finding to strategies to properly repair the vehicle. (Critical Thinking)
4. Describe the scope and application of principle features of the field of study, including core practices in the vehicle repair industry. (Specialized Knowledge)
5. Demonstrate mastery of the current terminology in the Transportation Service industry and generate substantially error-free products or processes that define the duties of a repair technician. (Specialized Knowledge)
6. Perform vehicle repair practices that meet or exceed industry standards as defined by (ASE) Automotive Service Excellence. (Applied Learning)
7. Demonstrate personal and professional ethical behavior as applied to the industry. (Applied Learning)
8. Define the legal and ethical standards required of the vehicle repair industry. (Specialized Knowledge)

**Institutional Certificate Requirements**

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Certificate Requirements**

(25 semester hours, must earn a grade of “C” or better in all courses.)

- Additional Expenses – Students entering the program may be required to purchase or have hand tools and appropriate clothing and safety gear with a total cost of approximately $2,500.00. This does not include cost of required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>TSTC 100</td>
<td>Introduction to Transportation Services</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 101</td>
<td>Vehicle Service and Inspection</td>
<td>3</td>
</tr>
<tr>
<td>TSTC 130</td>
<td>Electrical I</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 160</td>
<td>Electrical II</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 170</td>
<td>Chassis Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 171</td>
<td>Brakes I</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 175</td>
<td>Brakes II</td>
<td>2</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math</td>
<td>3</td>
</tr>
<tr>
<td>TSTG 120</td>
<td>Industrial Safety Practices</td>
<td>2</td>
</tr>
<tr>
<td>CADT 101</td>
<td>Introduction to Computers</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Total Semester Credit Hours</td>
<td>21</td>
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</table>

**Restricted Electives**

Select a minimum of 4 semester hours of the following:

- TSTG 115 Gas Engine Reconditioning
- TSTG 135 Starting and Charging Systems
- TSTG 150 Fluid Power
<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
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<tbody>
<tr>
<td>TSTG 195</td>
<td>Climate Control</td>
<td>1</td>
</tr>
<tr>
<td>TSTA 265</td>
<td>Engine Control Services</td>
<td>2</td>
</tr>
<tr>
<td>TSTA 286</td>
<td>Hybrid Vehicles</td>
<td>2</td>
</tr>
<tr>
<td>TSTA 289</td>
<td>Alternative Fueled Vehicles</td>
<td>2</td>
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<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
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**First Year**

**Fall Semester**

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>TSTC 100</td>
<td>Introduction to Transportation Services</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 170</td>
<td>Chassis Fundamentals</td>
<td>2</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math</td>
<td>3</td>
</tr>
<tr>
<td>TSTG 120</td>
<td>Industrial Safety Practices</td>
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</tr>
<tr>
<td>TSTC 171</td>
<td>Brakes I</td>
<td>2</td>
</tr>
<tr>
<td>TSTG 175</td>
<td>Brakes II</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
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</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSTC 101</td>
<td>Vehicle Service and Inspection</td>
<td>3</td>
</tr>
<tr>
<td>TSTC 130</td>
<td>Electrical I</td>
<td>2</td>
</tr>
<tr>
<td>TSTC 160</td>
<td>Electrical II</td>
<td>2</td>
</tr>
<tr>
<td>CADT 101</td>
<td>Introduction to Computers</td>
<td>1</td>
</tr>
<tr>
<td>TSTG/A - Restricted Electives</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Semester Credit Hours</strong></td>
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<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>25</strong></td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

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**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.
VISUAL COMMUNICATIONS

Program Description
The Animation Technology coursework prepares students to work in digital 3-D animation modeling environments. 3D Digital Animation is all about the art of visual storytelling. Animation technology combines traditional artistic skills such as drawing, design and sculpture, with video, lighting and special effects training. This program covers the in-depth fundamentals of classical animation based on the 12 principles of animation, as well as character development and rigging. Students gain experience using industry standard software such as 3DS Max, Photoshop, Illustrator and After Effects to produce animations and portfolios. Students will gain expertise in object modeling and computer generated animation techniques to produce complex 3-D animation projects, as well as study life drawing, layout and design, computer illustration, storytelling and storyboarding. Graduates of this program will be prepared for entry-level jobs in the fields of movie animation, gaming animation and animation for commercials and presentations.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Certificates
• 3D Animation Technology, Visual Communications (Technical Certificate) (p. 717)

3D Animation Technology, Visual Communications (Technical Certificate)
Degree: Technical Certificate
Program of Study: Visual Communications
Specialization: 3D Animation Technology
Program Code: 1150

About This Major . . .
The 3D Animation Technology certificate prepares students to work in digital 3D animated environments. 3D Animation Technology is all about the art of visual storytelling. During this program, you will use the 12 Principals of Animation, to develop dynamic 3D characters and environments. You will gain experience using industry-standard software to produce animations and portfolios. Students develop skills for entry-level jobs in the fields of 3D movie animation, 3D gaming animation, and 3D animation for commercials and presentations.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written and electronic forms that are needed for entry level employment. (Communication Fluency)
2. Apply mathematical and applied physics concepts for industry to meet employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences and technical careers. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of technical skills. (Specialized Knowledge)
5. Perform the necessary applied skill sets to fulfill the needs of entry level employment. (Applied Learning)
6. Demonstrate ethical, civic and work place responsibility as part of professional behavior. (Specialized Knowledge)

Institutional Certificate Requirements
The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(31 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
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<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGDA 105</td>
<td>Creative Development</td>
<td>3</td>
</tr>
<tr>
<td>MGDA 120</td>
<td>Digital Design Tools</td>
<td>3</td>
</tr>
<tr>
<td>MGDA 149</td>
<td>Digital Drawing</td>
<td>3</td>
</tr>
<tr>
<td>MGDA 150</td>
<td>Previsualization</td>
<td>3</td>
</tr>
<tr>
<td>MGDA 153</td>
<td>Beginning 3D Animation</td>
<td>3</td>
</tr>
<tr>
<td>MGDA 163</td>
<td>Audio Design</td>
<td>3</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

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Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
VITICULTURE AND ENOLOGY

Program Description
The Viticulture and Enology curriculum is designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, vineyard and/or winemaking business. Students learn the fundamentals of sustainable viticulture, focusing on cultivars that are suitable for Colorado, as well as the science of fermentation, and the fundamentals of producing and testing wine. Emphasis is placed on entrepreneurial and practical field training. As part of their education, students will participate in the establishment and management of a vineyard, and the production of wine. Graduates are qualified for employment in a variety of positions associated with viticulture and winemaking businesses.

This program will provide the student with an understanding of the viticulture and enology industry, the principles and science underlying operation and control decisions, and financial practices and measures common to the businesses. The graduate will understand the technical aspects of the work, the responsibilities of the work and the importance of safety in this vitally important career.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
- Viticulture and Enology (AAS) (p. 719)

Certificates
- Enology, Viticulture and Enology (Technical Certificate) (p. 721)
- Viticulture, Viticulture and Enology (Technical Certificate) (p. 722)
- Wine Professional, Viticulture and Enology (Technical Certificate) (p. 723)

Viticulture and Enology (AAS)
Degree: Associate of Applied Science
Major: Viticulture and Enology
Program Code: 1309

About This Major . . .
About This Major . . . The Viticulture and Enology curriculum is designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, vineyard and/or winemaking business. Students learn the fundamentals of sustainable viticulture, focusing on cultivars that are suitable for Colorado, as well as the science of fermentation, and the fundamentals of producing and testing wine. Emphasis is placed on entrepreneurial and practical field training. As part of their education, students will participate in the establishment and management of a vineyard, and the production of wine. Graduates are qualified for employment in a variety of positions associated with viticulture and winemaking businesses.

This program will provide the student with an understanding of the viticulture and enology industry, the principles and science underlying operation and control decisions, and financial practices and measures common to the businesses. The graduate will understand the technical aspects of the work, the responsibilities of the work and the importance of safety in this vitally important career.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written and electronic forms that are needed for entry level employment. (Communication Fluency)
2. Apply mathematical and applied physics concepts for industry to meet employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences and technical careers. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of technical skills. (Specialized Knowledge)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this degree:
- 65 semester hours total for the AAS, Viticulture and Enology.
- A minimum of 16 semester hours taken at CMU in no fewer than two semesters.
Essential Learning Requirements

(15 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Select one of the following courses:</td>
<td>3</td>
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<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td></td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td></td>
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</table>

Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 107</td>
<td>Career Math (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

Other Essential Learning Core Courses

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Total Semester Credit Hours 15

Other Lower Division Requirements

Wellness Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Select one Activity course</td>
<td>1</td>
</tr>
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</table>

Total Semester Credit Hours 2

Program Specific Degree Requirements

(48 semester hours, must earn a “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 100</td>
<td>Practical Crop Production</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 100L</td>
<td>Practical Crop Production Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AGRS 101</td>
<td>Fermented Beverages</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 104</td>
<td>Agriculture Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 106</td>
<td>Fermentation Science</td>
<td>2</td>
</tr>
<tr>
<td>AGRS 106L</td>
<td>Fermentation Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AGRS 130</td>
<td>Vineyard Establishment and Management</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 130L</td>
<td>Vineyard Establishment and Management Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AGRS 165</td>
<td>Winemaking I</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 165L</td>
<td>Winemaking I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AGRS 170</td>
<td>Sensory Analysis</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 189</td>
<td>Viticulture Practicum</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 202</td>
<td>Winery Operations and Marketing</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 205</td>
<td>Farm and Ranch Management</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 240</td>
<td>Introduction to Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 240L</td>
<td>Introduction to Soil Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AGRS 245</td>
<td>Winemaking II</td>
<td>2</td>
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<tr>
<td>AGRS 245L</td>
<td>Winemaking II Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AGRS 255</td>
<td>Viticulture Harvest and Post-harvest Management</td>
<td>2</td>
</tr>
<tr>
<td>AGRS 255L</td>
<td>Viticulture Harvest and Post-harvest Management Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AGRS 270</td>
<td>Science of Winemaking</td>
<td>2</td>
</tr>
<tr>
<td>AGRS 275</td>
<td>Winemaking III</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 48

First Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 100</td>
<td>Practical Crop Production</td>
<td>4</td>
</tr>
<tr>
<td>AGRS 100L</td>
<td>Practical Crop Production Laboratory</td>
<td></td>
</tr>
<tr>
<td>AGRS 101</td>
<td>Fermented Beverages</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 107</td>
<td>Career Math (or higher)</td>
<td>3</td>
</tr>
<tr>
<td>KINA 1XX</td>
<td>Activity Course</td>
<td>1</td>
</tr>
</tbody>
</table>

Second Year

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 240</td>
<td>Introduction to Soil Science</td>
<td>4</td>
</tr>
<tr>
<td>AGRS 240L</td>
<td>Introduction to Soil Science Laboratory</td>
<td></td>
</tr>
<tr>
<td>AGRS 245</td>
<td>Winemaking II</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 245L</td>
<td>Winemaking II Laboratory</td>
<td></td>
</tr>
<tr>
<td>AGRS 255</td>
<td>Viticulture Harvest and Post-harvest Management</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 255L</td>
<td>Viticulture Harvest and Post-harvest Management Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AGRS 270</td>
<td>Science of Winemaking</td>
<td>2</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
</tbody>
</table>

Summer Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 189</td>
<td>Viticulture Practicum</td>
<td>3</td>
</tr>
</tbody>
</table>

Second Year

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 170</td>
<td>Sensory Analysis</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 202</td>
<td>Winery Operations and Marketing</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 205</td>
<td>Farm and Ranch Management</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 275</td>
<td>Winemaking III</td>
<td>3</td>
</tr>
</tbody>
</table>


Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Enology, Viticulture and Enology
(technical certificate)

Degree: Technical Certificate
Program of Study: Viticulture and Enology
Specialization: Enology
Program Code: 1109

About This Major . . .

Enology Technical certificate in the Viticulture and Enology program is a concentrated study in the areas of viticulture, winemaking processes, wine etiquette, and sensory evaluation. The certificate provides information and knowledge base for the students interested in the wine industry.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written and electronic forms that are needed for entry level employment. (Communication Fluency)
2. Apply mathematical and applied physics concepts for industry to meet employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences and technical careers. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of technical skills. (Specialized Knowledge)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(18 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 101</td>
<td>Fermented Beverages</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 106</td>
<td>Fermentation Science</td>
<td>2</td>
</tr>
</tbody>
</table>
**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student's responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar's Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar's Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

**Viticulture, Viticulture and Enology (Technical Certificate)**

Degree: Technical Certificate
Program of Study: Viticulture and Enology
Specialization: Viticulture
Program Code: 1107

**About This Major . . .**

This certificate prepares students for a future training and career in grape growing and vineyard establishment.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written and electronic forms that are needed for entry level employment. (Communication Fluency)
2. Apply mathematical and applied physics concepts for industry to meet employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences and technical careers. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of technical skills. (Specialized Knowledge)

**Institutional Certificate Requirements**

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Certificate Requirements**

(18 semester hours, must earn a grade of “C” or better in each course.)
Wine Professional, Viticulture and Enology (Technical Certificate)

Degree: Technical Certificate
Program of Study: Viticulture and Enology
Specialization: Wine Professional
Program Code: 1108

About This Major...

This certificate prepares students for careers to determine all aspects of wine service as well as pairing wine with foods in fine restaurants or wineries.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written and electronic forms that are needed for entry level employment. (Communication Fluency)
2. Apply mathematical and applied physics concepts for industry to meet employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences and technical careers. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of technical skills. (Specialized Knowledge)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

### Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGRS 100</td>
<td>Practical Crop Production</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 100L</td>
<td>Practical Crop Production Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AGRS 130</td>
<td>Vineyard Establishment and Management</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 130L</td>
<td>Vineyard Establishment and Management Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AGRS 240</td>
<td>Introduction to Soil Science</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 240L</td>
<td>Introduction to Soil Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AGRS 255</td>
<td>Viticulture Harvest and Post-harvest Management</td>
<td>2</td>
</tr>
<tr>
<td>AGRS 255L</td>
<td>Viticulture Harvest and Post-harvest Management Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>AGRS 205</td>
<td>Farm and Ranch Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>18</strong></td>
<td></td>
</tr>
</tbody>
</table>

Total Semester Credit Hours

723
* See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Certificate Requirements**

(12-13 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ABUS 155</td>
<td>Social Media for Business</td>
<td>3-4</td>
</tr>
<tr>
<td>or CUAR 190</td>
<td>Dining Room Management</td>
<td></td>
</tr>
<tr>
<td>AGRS 101</td>
<td>Fermented Beverages</td>
<td>3</td>
</tr>
<tr>
<td>AGRS 170</td>
<td>Sensory Analysis</td>
<td>3</td>
</tr>
<tr>
<td>CUAR 179</td>
<td>Wines, Spirits and Beers</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Semester Credit Hours</strong></td>
<td>12-13</td>
<td></td>
</tr>
</tbody>
</table>

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
WATER QUALITY MANAGEMENT

Program Description
Begin a new career managing the processes that improve water quality. The Water Quality Management program prepares students for entry-level employment as technicians in the water processing industry. Water quality technicians work in teams to operate drinking water treatment systems and wastewater treatment systems. The workers plan, test for quality, and operate complex equipment to acquire and deliver high quality drinking water or process wastewater for return to the environment.

This program will provide the student with an understanding of the regulatory expectations, the science involved in meeting regulatory expectations, the equipment used to process water, and the systems management skills necessary to be a successful employee in the water processing industry.

Program Strengths
• Provides students with an understanding of the science involved in meeting regulatory expectations
• Instruction on the equipment used to process water
• Curriculum emphasizes the necessary systems management skills
• Provide students necessary information to pass state examination for state license.

Career Opportunities
• Occupational Health and Safety Specialist
• Water Treatment Plant Technician
• Wastewater Treatment Plant Technician
• Water Resource Specialist
• Laboratory Analyst
• Water Chemist

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
• Water Quality Management (AAS) (p. 725)

Certificates
• Advanced Wastewater Treatment, Water Quality Management (Technical Certificate) (p. 727)
• Advanced Water Treatment, Water Quality Management (Technical Certificate) (p. 728)
• Introduction to Wastewater Treatment, Water Quality Management (Technical Certificate) (p. 729)
• Mathematics in Water Quality, Water Quality Management (Technical Certificate) (p. 730)
• Small Systems, Water Quality Management (Technical Certificate) (p. 731)
• Wastewater Collection and Treatment, Water Quality Management (Technical Certificate) (p. 733)
• Water Distribution and Collection Systems, Water Quality Management (Technical Certificate) (p. 734)
• Water Distribution and Treatment, Water Quality Management (Technical Certificate) (p. 735)

Water Quality Management (AAS)
Degree: Associate of Applied Science
Major: Water Quality Management
Program Code: 1365

About This Major . . .
The Water Quality Management Program will prepare students for entry-level employment as technicians in the water processing industry. Water quality technicians work in teams to operate drinking water treatment systems and wastewater treatment systems. The workers plan, test for quality, operate complex equipment to acquire and deliver high quality drinking water or process wastewater for return to the environment.

This program will provide the student with an understanding of the regulatory expectations, the science involved in meeting regulatory expectations, the equipment used to process water, and the systems management skills necessary to be a successful employee in the water processing industry. The industries interested in hiring graduates of this program are the public drinking water utilities and the wastewater treatment systems.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written, and electronic forms that are needed for entry level employment. (Communication)
2. Apply Mathematical and applied physics concepts for industry to meet employment requirements (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences, and technical careers. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of associated technical skills. (Specialized Knowledge)
5. Perform the necessary applied skill sets to fulfill the needs of entry level employment. (Applied Learning)
6. Demonstrate ethical, civic, and work place responsibility as part of professional behavior. (Specialized Knowledge)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.
• 60 semester hours minimum.
• Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
• 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
• A course may only be used to fulfill one requirement for each degree/certificate.
• No more than six semester hours of independent study courses can be used toward the degree.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
• The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:
• 65 semester hours total for the AAS, Water Quality Management.
• A minimum of 16 semester hours taken at CMU in no fewer than two semesters.

Essential Learning Requirements
(17 semester hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td></td>
</tr>
<tr>
<td>MATH 108</td>
<td>Technical Mathematics (or higher)</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Essential Learning Core Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 121 Principles of Chemistry-GTSC1</td>
</tr>
<tr>
<td>CHEM 121L Principles of Chemistry Laboratory-GTSC1</td>
</tr>
<tr>
<td>Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
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Other Lower Division Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>KINA 1XX</td>
<td>Activity</td>
<td>1</td>
</tr>
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<td>Total Semester Credit Hours</td>
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Program Specific Degree Requirements
(46 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
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<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>WQMS 100</td>
<td>Introduction to Water Quality</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 105</td>
<td>Specific Calculations for Water Quality Management</td>
<td>4</td>
</tr>
<tr>
<td>WQMS 106</td>
<td>Mechanical/Physical Treatment</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 109</td>
<td>Water Distribution</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 116</td>
<td>Conventional Surface Water Treatment</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 118</td>
<td>Wastewater Collection Systems</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 119</td>
<td>Basic Water Quality Analysis</td>
<td>4</td>
</tr>
<tr>
<td>WQMS 126</td>
<td>Safety and Security Systems</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 127</td>
<td>Water Quality Utility Management</td>
<td>3</td>
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<tr>
<td>WQMS 150</td>
<td>Troubleshooting in Water Quality</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 202</td>
<td>Small Water Systems Operation and Maintenance</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 203</td>
<td>Water Quality Small Wastewater Systems</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 212</td>
<td>Drinking Water Regulations</td>
<td>4</td>
</tr>
<tr>
<td>WQMS 216</td>
<td>Biological and Bacteriological Water Quality Analyses</td>
<td>4</td>
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<td>Total Semester Credit Hours</td>
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</table>

First Year
Fall Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Technical Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>WQMS 100</td>
<td>Introduction to Water Quality</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 106</td>
<td>Mechanical/Physical Treatment</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 109</td>
<td>Water Distribution</td>
<td>3</td>
</tr>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
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<td>Total Semester Credit Hours</td>
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Spring Semester

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tr>
<td>WQMS 118</td>
<td>Wastewater Collection Systems</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 119</td>
<td>Basic Water Quality Analysis</td>
<td>4</td>
</tr>
<tr>
<td>WQMS 105</td>
<td>Specific Calculations for Water Quality Management</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 121 &amp; 121L Principles of Chemistry Laboratory-GTSC1</td>
<td>5</td>
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<td>Total Semester Credit Hours</td>
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Second Year
Fall Semester

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
</tbody>
</table>
### Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the "Intent to Graduate" form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at [http://www.coloradomesa.edu/registrar/graduation.html](http://www.coloradomesa.edu/registrar/graduation.html).

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

### Advancing Wastewater Treatment, Water Quality Management (Technical Certificate)

**Degree:** Technical Certificate  
**Program of Study:** Water Quality Management  
**Specialization:** Advanced Wastewater Treatment  
**Program Code:** 1131

### About This Major . . .

Technical Certificate - Advanced Wastewater Treatment program prepares students for entry-level employment as technicians in the water processing industry. Water quality technicians work in teams to operate drinking water treatment systems and wastewater treatment systems. The program provides an understanding of the regulatory expectations, the science involved in meeting regulatory expectations, the equipment used to process water and the systems management skills necessary to be a successful employee in the water processing industry. The program consists of three Technical Certifications and an Associates of Applied Science degree. The Advance Wastewater Treatment technical certificate focuses on wastewater collection and treatment for bacterial, and harmful pollutants.

For more information on what you can do with this major, go to [http://www.coloradomesa.edu/wccc/programs.html](http://www.coloradomesa.edu/wccc/programs.html)

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written, and electronic forms that are needed for entry level employment.  
   (Communication)
2. Apply Mathematical and applied physics concepts for industry to meet employment requirements (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences, and technical careers.  
   (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of associated technical skills.  
   (Specialized Knowledge)
5. Perform the necessary applied skill sets to fulfill the needs of entry level employment.  
   (Applied Learning)
6. Demonstrate ethical, civic, and work place responsibility as part of professional behavior.  
   (Specialized Knowledge)

### Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
• A course may only be used to fulfill one requirement for each degree/certificate.
• Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
• Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
• Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
• The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
• See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(6 semester hours, must earn a grade of "C" or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WQMS 125</td>
<td>Wastewater Certification Review for Class C &amp; D</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 225</td>
<td>Wastewater Certification Review for Class A &amp; B</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

• Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
• Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.

• Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
• Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Advanced Water Treatment, Water Quality Management (Technical Certificate)

Degree: Technical Certificate
Program of Study: Water Quality Management
Specialization: Advanced Water Treatment
Program Code: 1132

About This Major . . .

Technical Certificate- Advanced Water Treatment program prepares students for entry-level employment as technicians in the water processing industry. Water quality technicians work in teams to operate drinking water treatment systems and wastewater treatment systems. The program provides an understanding of the regulatory expectations, the science involved in meeting regulatory expectations, the equipment used to process water and the systems management skills necessary to be a successful employee in the water processing industry. The program consists of eight Technical Certifications and an Associates of Applied Science degree. The Advanced Water Treatment technical certificate focuses on water treatment for bacterial, and harmful pollutants.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written, and electronic forms that are needed for entry level employment. (Communication)
2. Apply Mathematical and applied physics concepts for industry to meet employment requirements (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences, and technical careers. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of associated technical skills. (Specialized Knowledge)
5. Perform the necessary applied skill sets to fulfill the needs of entry level employment. (Applied Learning)
6. Demonstrate ethical, civic, and work place responsibility as part of professional behavior. (Specialized Knowledge)
Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(6 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WQMS 124</td>
<td>Water Certification Review for Class C &amp; D</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 224</td>
<td>Water Certification Review for Class A &amp; B</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Introduction to Wastewater Treatment, Water Quality Management (Technical Certificate)

Degree: Technical Certificate
Program of Study: Water Quality Management
Specialization: Introduction to Wastewater Treatment
Program Code: 1133

About This Major . . .

Technical Certificate- Introduction to Wastewater Treatment program prepares students for entry-level employment as technicians in the water processing industry. Water quality technicians work in teams to operate drinking water treatment systems and wastewater treatment systems. The program provides an understanding of the regulatory expectations, the science involved in meeting regulatory expectations, the equipment used to process water and the systems management skills necessary to be a successful employee in the water processing industry. The program consists of three Technical Certifications and an Associates of Applied Science degree. The Wastewater Collection & Treatment technical certificate focuses on wastewater collection and treatment for bacterial, and harmful pollutants.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written, and electronic forms that are needed for entry level employment. (Communication)
2. Apply Mathematical and applied physics concepts for industry to meet employment requirements (Quantitative Fluency)
2. Research, evaluate, synthesize and apply information/data relevant to business, sciences, and technical careers. (Critical Thinking)
3. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of associated technical skills. (Specialized Knowledge)
4. Perform the necessary applied skill sets to fulfill the needs of entry level employment. (Applied Learning)
5. Demonstrate ethical, civic, and work place responsibility as part of professional behavior. (Specialized Knowledge)

Institutional Certificate Requirements
The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than "C" will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements
(6 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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<tr>
<td>WQMS 100</td>
<td>Introduction to Water Quality</td>
<td>3</td>
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<tr>
<td>WQMS 125</td>
<td>Wastewater Certification Review for Class C &amp; D</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>6</strong></td>
</tr>
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</table>

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process
Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Mathematics in Water Quality, Water Quality Management (Technical Certificate)

Degree: Technical Certificate
Program of Study: Water Quality Management
Specialization: Mathematics in Water Quality
Program Code: 1134

About This Major . . .
Technical Certificate- Mathematics in Water Quality program prepares students for entry-level employment as technicians in the water processing industry. Water quality technicians work in teams to operate drinking water treatment systems and wastewater treatment systems. The program provides an understanding of the regulatory expectations, the science involved in meeting regulatory expectations, the equipment used to process water and the systems management skills necessary to be a successful employee in the water processing industry. The program consists of eight Technical Certifications and an Associates of Applied Science degree. The Mathematics in Water Quality technical certificate focuses on math associated with Water Quality.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and
Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(8 semester hours, must earn a grade of “C” or better in each course.)

<table>
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<tbody>
<tr>
<td>WQMS 105</td>
<td>Specific Calculations for Water Quality Management</td>
<td>4</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class): .

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student's petition for graduation is denied, it will be her/his responsibility to consult the Registrar's Office regarding next steps.

Small Systems, Water Quality Management (Technical Certificate)

Degree: Technical Certificate
Program of Study: Water Quality Management
Specialization: Small Systems
Program Code: 1135

About This Major . . .

Technical Certificate- Small Systems in Water Quality Management program prepares students for entry-level employment as technicians in the water processing industry. Water quality technicians work in teams to operate drinking water treatment systems and wastewater treatment systems. The program provides an understanding of the regulatory expectations, the science involved in meeting regulatory expectations, the equipment used to process water and the systems management skills necessary to be a successful employee in the water processing industry. The program consists of three Technical Certifications and an
Associates of Applied Science degree. The Small Systems technical certificate is recognized by the state and county as an important part of water and wastewater operations.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written, and electronic forms that are needed for entry level employment. (Communication)
2. Research, evaluate, synthesize and apply information/data relevant to business, sciences, and technical careers. (Critical Thinking)
3. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of associated technical skills. (Specialized Knowledge)
4. Perform the necessary applied skill sets to fulfill the needs of entry level employment. (Applied Learning)
5. Demonstrate ethical, civic, and work place responsibility as part of professional behavior. (Specialized Knowledge)

**Institutional Certificate Requirements**

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

**Program Specific Certificate Requirements**

(16 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WQMS 105</td>
<td>Specific Calculations for Water Quality Management</td>
<td>4</td>
</tr>
<tr>
<td>WQMS 126</td>
<td>Safety and Security Systems</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 127</td>
<td>Water Quality Utility Management</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 202</td>
<td>Small Water Systems Operation and Maintenance</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 203</td>
<td>Water Quality Small Wastewater Systems</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 16

**Advising Process and DegreeWorks**

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
Wastewater Collection and Treatment, Water Quality Management (Technical Certificate)

Degree: Technical Certificate  
Program of Study: Water Quality Management  
Specialization: Wastewater Collection and Treatment  
Program Code: 1136

About This Major . . .

Technical Certificate- Wastewater Collection & Treatment program prepares students for entry-level employment as technicians in the water processing industry. Water quality technicians work in teams to operate drinking water treatment systems and wastewater treatment systems. The program provides an understanding of the regulatory expectations, the science involved in meeting regulatory expectations, the equipment used to process water and the systems management skills necessary to be a successful employee in the water processing industry. The program consists of three Technical Certifications and an Associates of Applied Science degree. The Wastewater Collection & Treatment technical certificate focuses on wastewater collection and treatment for bacterial, and harmful pollutants.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written, and electronic forms that are needed for entry level employment. (Communication)

1. Apply Mathematical and applied physics concepts for industry to meet employment requirements (Quantitative Fluency)

2. Research, evaluate, synthesize and apply information/data relevant to business, sciences, and technical careers. (Critical Thinking)

3. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of associated technical skills. (Specialized Knowledge)

4. Perform the necessary applied skill sets to fulfill the needs of entry level employment. (Applied Learning)

5. Demonstrate ethical, civic, and work place responsibility as part of professional behavior. (Specialized Knowledge)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(16 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WQMS 105</td>
<td>Specific Calculations for Water Quality Management</td>
<td>4</td>
</tr>
<tr>
<td>WQMS 106</td>
<td>Mechanical/Physical Treatment</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 118</td>
<td>Wastewater Collection Systems</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 126</td>
<td>Safety and Security Systems</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 127</td>
<td>Water Quality Utility Management</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td><strong>Total Semester Credit Hours</strong></td>
<td><strong>16</strong></td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar's Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):
Water Distribution and Collection Systems, Water Quality Management (Technical Certificate)

Degree: Technical Certificate
Program of Study: Water Quality Management
Specialization: Water Distribution and Collection Systems
Program Code: 1137

About This Major . . .

Technical Certificate- Water Distribution Collection Systems program prepares students for entry-level employment as technicians in the water processing industry. Water quality technicians work in teams to operate drinking water treatment systems and wastewater treatment systems. The program provides an understanding of the regulatory expectations, the science involved in meeting regulatory expectations, the equipment used to process water and the systems management skills necessary to be a successful employee in the water processing industry. The program consists of three Technical Certifications and an Associates of Applied Science degree. The Water Distribution and Collection systems certificate is designed to prepare students for employment at the technician level in water operations.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written, and electronic forms that are needed for entry level employment. (Communication)
2. Apply Mathematical and applied physics concepts for industry to meet employment requirements (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to business, sciences, and technical careers. (Critical Thinking)
4. Demonstrate knowledge of terminology, symbols, business practices, and principles and application of associated technical skills. (Specialized Knowledge)
5. Demonstrate ethical, civic, and work place responsibility as part of professional behavior. (Specialized Knowledge)

Institutional Certificate Requirements

The following institutional requirements apply to all CMU or WCCC Technical Certificates. Specific programs may have different requirements that must be met in addition to institutional requirements.

- Consists of 5-59 semester hours.
- Consists of 100-200 level courses.
- At least fifty percent of the credit hours must be taken at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A grade lower than “C” will not be counted toward meeting the requirements.
- A course may only be used to fulfill one requirement for each degree/certificate.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed twenty-five percent of the semester credit hours required for a technical certificate.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Certificate Requirements.
- The Catalog Year determines which program sheet and certificate requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Program Specific Certificate Requirements

(6 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WQMS 109</td>
<td>Water Distribution</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 118</td>
<td>Wastewater Collection Systems</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>6</td>
</tr>
</tbody>
</table>

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis.
and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.

Water Distribution and Treatment, Water Quality Management (Technical Certificate)

Degree: Technical Certificate
Program of Study: Water Quality Management
Specialization: Water Distribution and Treatment
Program Code: 1138

About This Major . . .

Technical Certificate- Water Distribution & Treatment program prepares students for entry-level employment as technicians in the water processing industry. Water quality technicians work in teams to operate drinking water treatment systems and wastewater treatment systems. The program provides an understanding of the regulatory expectations, the science involved in meeting regulatory expectations, the equipment used to process water and the systems management skills necessary to be a successful employee in the water processing industry. The program consists of three Technical Certifications and an Associates of Applied Science degree. The Water Distribution & Treatment certificate is designed to prepare students for employment at the technician level in water operations.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written, and electronic forms that are needed for entry level employment. (Communication)

Program Specific Certificate Requirements

(16 semester hours, must earn a grade of “C” or better in each course.)

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WQMS 105</td>
<td>Specific Calculations for Water Quality Management</td>
<td>4</td>
</tr>
<tr>
<td>WQMS 109</td>
<td>Water Distribution</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 116</td>
<td>Conventional Surface Water Treatment</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 126</td>
<td>Safety and Security Systems</td>
<td>3</td>
</tr>
<tr>
<td>WQMS 127</td>
<td>Water Quality Utility Management</td>
<td>3</td>
</tr>
<tr>
<td>Total Semester Credit Hours</td>
<td></td>
<td>16</td>
</tr>
</tbody>
</table>
Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a certificate. Some courses are critical to complete in specific semesters while others may be moved around. Meeting with an academic advisor is essential in planning courses and discussing the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended certificate.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a certificate and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their certificate requirements (for one semester certificates complete in the first week of class):

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
WATERSHED SCIENCE

Program Description
The Watershed Science minor is an interdisciplinary program designed to serve the regional need for scientists with a strong background in water-related issues. It is a useful complement to environmental, physical and biological science majors, providing students in these fields with certification of focused coursework. Combined with the relevant bachelor of science degree, plus additional calculus and physics courses, the minor satisfies the federal government's requirements for qualification as a hydrologist. The proximity of Colorado Mesa University to the Colorado, Gunnison and Green Rivers, the drainages of the Colorado National Monument and the high arroyos create an ideal location for the study of Watershed Science.

Contact Information
Department of Physical and Environmental Sciences
Wubben Science 232
970.248.1993

Bachelors/Minors
- Watershed Science (Minor) (p. 439)
Program Description
The Associate of Applied Science (AAS) in Wildland Fire Management program covers the fundamentals of basic wildland firefighting and management, fire operations in the wildland/urban interface, and wildland fire cause and origin. The program prepares students for entry level positions in the wildland firefighting profession, and is designed to provide students who are interested in careers in emergency and natural resource management with the knowledge, communication, and critical thinking skills necessary for success in the field. Subjects covered are varied and include meteorology, aviation, physics of combustion, ignition methods and devices, and organizational management related to wildland fire emergency services.

Students successfully completing the program are eligible for industry certification. The wildland fire courses presented meet National Wildfire Coordination Group (NWCG) standards and are accepted by Federal, state, and local agencies with wildland fire management jurisdictions. Students with this AAS in Wildland Fire Management combined with industry certification will be highly competitive for employment and future promotional opportunities in the field.

Special Requirements
Wildland Fire operations are rigorous in nature and some of the field training is arduous in order to simulate actual fire scene environments. Students are responsible for providing their own boots and gloves that meet NWCG requirements for personal protective equipment.

Contact Information
Office of Student Services
WCCC, Bishop B102
2508 Blichmann Avenue
970.255.2670

Associates
- Wildland Fire Management (AAS) (p. 738)

Wildland Fire Management (AAS)
Degree: Associate of Applied Science
Major: Wildland Fire Management
Program Code: 1363

About This Major . . .
This program is designed for students who want the credentials of an Associate Degree combined with the technical training that meets National Wildfire Coordination Group (NWCG) standards. The courses offered align with the NWCG Curriculum.

This degree provides graduates with a competitive advantage in gaining employment in the Wildland fire and land management career markets. Graduates are qualified to apply for jobs with the Bureau of Land Management, U.S. Forest Service, National Park Service, as well as state, county, and contracted wildland firefighting entities.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

All CMU associate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Demonstrate proficient formal and informal communication and writing skills that are professional in nature (Communication Fluency)
2. Apply mathematical concepts required of entry level wildland firefighters. (Quantitative Fluency)
3. Demonstrate specialized and holistic knowledge of interagency Wildland Fire Management (Specialized Knowledge)
4. Demonstrate proficiency in basic skills required for entry level Wildland Fire Management professionals (Applied Learning)
5. Evaluate leadership and ethical issues specific to Wildland Fire Management (Specialized Knowledge)

Institutional Degree Requirements
The following institutional degree requirements apply to all CMU and WCCC Associate of Applied Science (AAS) degrees. Specific programs may have different requirements that must be met in addition to institutional requirements.

- 60 semester hours minimum.
- Students must complete a minimum of 15 of the final 30 semester hours of credit at CMU/WCCC.
- 2.00 cumulative GPA or higher in all CMU/WCCC coursework.
- A course may only be used to fulfill one requirement for each degree/certificate.
- No more than six semester hours of independent study courses can be used toward the degree.
- Non-traditional credit, such as advanced placement, credit by examination, credit for prior learning, cooperative education and internships, cannot exceed 20 semester credit hours for an AAS degree.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- Capstone exit assessment/projects (e.g., Major Field Achievement Test) requirements are identified under Program-Specific Degree Requirements.
- The Catalog Year determines which program sheet and degree requirements a student must fulfill in order to graduate. Visit with your advisor or academic department to determine which catalog year and program requirements you should follow.
- See “Requirements for Undergraduate Degrees and Certificates” in the catalog for a complete list of graduation requirements.

Specific to this program:
- 62 semester hours total for the AAS, Wildland Fire Management.

Essential Learning Requirements
(16 semester hours)
See the current catalog for a list of courses that fulfill the requirements below. If a course is an Essential Learning option and a requirement for
your major, you must use it to fulfill the major requirement and make a different selection for the Essential Learning requirement.

### Communication

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition - GTCO1</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 112</td>
<td>English Composition - GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 101</td>
<td>Interpersonal Communications</td>
<td></td>
</tr>
<tr>
<td>SPCH 102</td>
<td>Speechmaking</td>
<td></td>
</tr>
</tbody>
</table>

### Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 108</td>
<td>Technical Mathematics (or higher)¹</td>
<td>4</td>
</tr>
</tbody>
</table>

### Other Essential Learning Core Courses

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Select one Social and Behavioral Sciences, History, Natural Sciences, Fine Arts or Humanities course

Total Semester Credit Hours 16

¹ MATH 108 is a 4 semester credit hour course. 3 credits apply to Essential Learning. A higher course will satisfy the mathematics requirement for this AAS, and MATH 110, MATH 113, or higher may be required for BAS and BS degrees at CMU. See next intended degree for details if continuing to baccalaureate study after completion of AAS.

Should a student successfully complete a higher MATH course for 3 semester credit hours, this would fulfill the Mathematics Essential Learning Requirement and reduce the Essential Learning hours to 15. It would also reduce the overall hours for degree to 61, which is sufficient for graduation with this degree only when this hour difference is due to successful completion of a higher level MATH course at 3 semester credit hours.

### Other Lower Division Requirements

#### Wellness Requirement

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
</tr>
<tr>
<td>KINA 127</td>
<td>Physical Conditioning</td>
<td>1</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 2

### Program Specific Degree Requirements

(44 semester hours, must earn a grade of “C” or better in each course.)

#### Required Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVS 101</td>
<td>Introduction to Environmental Science - GTSC2</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 103</td>
<td>Weather and Climate - GTSC2</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 131</td>
<td>Introduction to Cartography</td>
<td>3</td>
</tr>
<tr>
<td>FSWM 100</td>
<td>Introduction to Wildland Fire Basic Fire Guard School</td>
<td>4</td>
</tr>
<tr>
<td>FSWM 142</td>
<td>Portable Pumps and Water Use</td>
<td>2</td>
</tr>
</tbody>
</table>

FSWM 144 Fire Operations in the Wildland/Urban Interface 2
FSWM 147 Ignition Operations 2
FSWM 151 Basic Air Operations 1
FSWM 153 Intermediate Wildland Fire Behavior 2
FSWM 155 Initial Attack Incident Commander - Basic Incident Command System 2
FSWM 156 Firefighter Type 1 and Fire Line Leadership 2
EMTS 115 Emergency Medical Responder 3

#### Restricted Electives

Select 15 semester hours of the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 107</td>
<td>Principles of Plant Biology</td>
<td></td>
</tr>
<tr>
<td>BIOL 107L</td>
<td>Principles of Plant Biology Laboratory</td>
<td></td>
</tr>
<tr>
<td>CHEM 121</td>
<td>Principles of Chemistry-GTSC1</td>
<td></td>
</tr>
<tr>
<td>CHEM 121L</td>
<td>Principles of Chemistry Laboratory-GTSC1</td>
<td></td>
</tr>
<tr>
<td>ENGL 219</td>
<td>Introduction to Professional Writing-GTCO3</td>
<td></td>
</tr>
<tr>
<td>ENVS 204</td>
<td>Introduction to Ecosystem Management</td>
<td></td>
</tr>
<tr>
<td>ENVS 204L</td>
<td>Introduction to Ecosystem Management Laboratory</td>
<td></td>
</tr>
<tr>
<td>ENVS 360</td>
<td>Fire Ecology</td>
<td></td>
</tr>
<tr>
<td>ENVS 360L</td>
<td>Fire Ecology Laboratory</td>
<td></td>
</tr>
<tr>
<td>EMDP 211</td>
<td>Introduction to Emergency Management</td>
<td></td>
</tr>
<tr>
<td>EMTS 101</td>
<td>Emergency Medical Technician - Basic I</td>
<td></td>
</tr>
<tr>
<td>FSWM 103</td>
<td>Expanded Dispatch Recorder</td>
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</tr>
<tr>
<td>FSWM 141</td>
<td>Introduction to Incident Information</td>
<td></td>
</tr>
<tr>
<td>FSWM 143</td>
<td>Wildfire Chain Saws</td>
<td></td>
</tr>
<tr>
<td>FSWM 148</td>
<td>Status/Check-In Recorder</td>
<td></td>
</tr>
<tr>
<td>FSWM 152</td>
<td>Helicopter Crew Member</td>
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</tr>
<tr>
<td>FSWM 158</td>
<td>Driving for the Fire Service</td>
<td></td>
</tr>
<tr>
<td>FSWM 162</td>
<td>Advanced Firefighter Position Task Book</td>
<td></td>
</tr>
<tr>
<td>FSWM 200</td>
<td>Extended Attack Incident Commander</td>
<td></td>
</tr>
<tr>
<td>FSWM 205</td>
<td>Introduction to Wildland Fire Behavior Calculations</td>
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<tr>
<td>FSWM 278</td>
<td>Supervised Work Experience</td>
<td></td>
</tr>
<tr>
<td>FSWM 196</td>
<td>Topics</td>
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<tr>
<td>FSWM 296</td>
<td>Topics</td>
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</tr>
<tr>
<td>FSWM 299</td>
<td>Internship</td>
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<tr>
<td>MANG 201</td>
<td>Principles of Management</td>
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</tr>
<tr>
<td>MANG 221</td>
<td>Supervisory Concepts and Practices</td>
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</tbody>
</table>

Total Semester Credit Hours 15

### First Year

#### Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>ENGL 111</td>
<td>English Composition - GTCO1</td>
<td>3</td>
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<tr>
<td>KINE 100</td>
<td>Health and Wellness</td>
<td>1</td>
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<tr>
<td>KINA 127</td>
<td>Physical Conditioning</td>
<td>1</td>
</tr>
<tr>
<td>MATH 108</td>
<td>Technical Mathematics (or higher)¹</td>
<td>4</td>
</tr>
</tbody>
</table>

Essential Learning Social and Behavioral Science, History, Natural Sciences, Fine Arts or Humanities course 3
ENVS 101  Introduction to Environmental Science-GTSC2  3  

Spring Semester

EMTS 115  Emergency Medical Responder  3  
FWSM 100  Introduction to Wildland Fire Basic Fire Guard School  4  
FWSM 142  Portable Pumps and Water Use  2  
FWSM 147  Ignition Operations  2  
FWSM 155  Initial Attack Incident Commander/Basic Incident Command System  2  
GEOG 131  Introduction to Cartography  3  

Semester Credit Hours  15

Second Year

Fall Semester

Essential Learning Social and Behavioral Science, History, Natural Sciences, Fine Arts or Humanities course  3  
ENGL 112  English Composition-GTCO2  3  
GEOL 103  Weather and Climate-GTSC2  3  
Restricted Electives  7  

Semester Credit Hours  16

Spring Semester

FWSM 144  Fire Operations in the Wildland/Urban Interface  2  
FWSM 153  Intermediate Wildland Fire Behavior  2  
FWSM 156  Firefighter Type 1 and Fire Line Leadership  2  
FWSM 151  Basic Air Operations  1  
FWSM - Restricted Electives  8  

Semester Credit Hours  15  
Total Semester Credit Hours  62

Advising Process and DegreeWorks

Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a degree. The suggested course sequencing outlines how students could finish degree requirements. Some courses are critical to complete in specific semesters, while others may be moved around. Meeting with an academic advisor is essential in planning courses and altering the suggested course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended degree(s).

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a degree and determine eligibility for graduation. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head. Discrepancies in requirements should be reported to the Registrar’s Office.

Graduation Process

Students must complete the following in the first two months of the semester prior to completing their degree requirements:

- Review their DegreeWorks audit and create a plan that outlines how unmet requirements will be met in the final semester.
- Meet with their advisor and modify their plan as needed. The advisor must approve the final plan.
- Submit the “Intent to Graduate” form to the Registrar’s Office to officially declare the intended graduation date and commencement ceremony plans.
- Register for all needed courses and complete all requirements for each degree sought.

Submission deadlines and commencement details can be found at http://www.coloradomesa.edu/registrar/graduation.html.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
WOMEN’S AND GENDER STUDIES

Program Description
The Women’s and Gender Studies minor recognizes the centrality of gender to a variety of disciplines, professions, and personal experiences and world views. Students will take coursework in disciplines such as Criminal Justice, History, Literature, Psychology, and Sociology with an aim of developing an interdisciplinary understanding of issues related to women and gender in contemporary and historical contexts.

By augmenting students’ chosen majors, the Women's and Gender Studies minor prepares students looking for strong interdisciplinary perspectives along their path to careers and/or further studies in social work, counseling, law, education, business, and the arts, among others.

Contact Information
Department of Social and Behavioral Sciences
Lowell Heiny Hall 413
970.248.1696

Bachelors/Minors
• Women’s and Gender Studies (Minor) (p. 741)

Women's and Gender Studies (Minor)
Minor: Women's and Gender Studies
Program Code: M705

About This Minor. . .
The Women’s and Gender Studies Minor recognizes the centrality of gender to a variety of disciplines, professions, and personal experiences and world views. Students will take coursework in at least three academic disciplines with an aim toward developing an interdisciplinary understanding of issues related to women and gender in both contemporary and historical contexts.

By augmenting students’ chosen majors, the Women’s and Gender Studies minor prepares students looking for strong interdisciplinary perspectives along their path to careers and/or further studies in social work, counseling, law, education, business, and the arts, among others.

Institutional Minor Requirements
The following institutional requirements apply to all CMU minors. Specific programs may have different requirements that must be met in addition to institutional requirements.

• A minor consists of 15-24 semester hours. There may be prerequisites required for the minor which will increase the total number of credit hours for a student who has not already taken those prerequisites.
• Courses taken to satisfy Essential Learning, major requirements, or electives can be counted toward the minor if applicable.
• At least 33 percent of the credit hours required for the minor must be in courses numbered 300 or above.
• At least 25 percent of the classes must be taken at CMU.
• 2.00 cumulative GPA or higher for the courses used for the minor.

Program Specific Minor Requirements
(15 semester hours)

• Students must take courses in at least three disciplines within the minor.
• Note that upper-division courses have prerequisites, which can be completed as a part of your Essential Learning courses; prerequisites may be waived solely at the instructor’s discretion. Some upper-division courses are offered in alternate years; students are advised to plan accordingly.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 330</td>
<td>Women in World Thought and Literature</td>
<td>6</td>
</tr>
<tr>
<td>SOCO 340</td>
<td>Sociology of Gender</td>
<td></td>
</tr>
<tr>
<td>PSYC 335</td>
<td>Psychology of Women</td>
<td></td>
</tr>
<tr>
<td>ENGL 330</td>
<td>Women in World Thought and Literature</td>
<td>9</td>
</tr>
<tr>
<td>HIST 370</td>
<td>Early United States Women's History</td>
<td></td>
</tr>
<tr>
<td>HIST 371</td>
<td>20th Century United States Women's History</td>
<td></td>
</tr>
<tr>
<td>HIST 425</td>
<td>History of Sexuality</td>
<td></td>
</tr>
<tr>
<td>PSYC 335</td>
<td>Psychology of Women</td>
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<td>PSYC 411</td>
<td>Human Sexuality</td>
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</tr>
<tr>
<td>PSYP 410</td>
<td>Introduction to Marriage and Family Counseling</td>
<td></td>
</tr>
<tr>
<td>SOCO 345</td>
<td>Sociology of Sexuality</td>
<td></td>
</tr>
<tr>
<td>SOCO 351</td>
<td>21st Century Families</td>
<td></td>
</tr>
<tr>
<td>SOCI 101</td>
<td>Introduction to Lesbian, Gay, Bisexual, and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Transgender Studies</td>
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<tr>
<td>CRMJ 330</td>
<td>Domestic Violence</td>
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<tr>
<td>CRMJ 375</td>
<td>Women and Crime</td>
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<tr>
<td>POLS 373</td>
<td>Global Politics of Women and Gender</td>
<td></td>
</tr>
</tbody>
</table>

Or special course offerings such as Topics and Major Authors courses with the approval of minor advisor and Department Head

Total Semester Credit Hours 15

1 Students must take courses in at least three disciplines within the minor.

Advising Process and DegreeWorks
Documentation on the pages related to this program is intended for informational purposes to help determine what courses and associated requirements are needed to earn a minor. Meeting with an academic advisor is essential in planning courses and developing a suggested
course sequencing. It is ultimately the student’s responsibility to understand and fulfill the requirements for her/his intended minor.

DegreeWorks is an online degree audit tool available in MAVzone. It is the official record used by the Registrar’s Office to evaluate progress towards a minor. Students are responsible for reviewing their DegreeWorks audit on a regular basis and should discuss questions or concerns with their advisor or academic department head for the minor. Discrepancies in requirements should be reported to the Registrar’s Office.

**Graduation Process**

A minor cannot be awarded by itself. It must be combined with a baccalaureate degree outside the major field of study. Students should follow the graduation process outlined for the baccalaureate degree and list their majors and minors on the “Intent to Graduate” form.

If a student’s petition for graduation is denied, it will be her/his responsibility to consult the Registrar’s Office regarding next steps.
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- Animation, Film, Photography and Motion Design (BFA) (p. 145)
- Applied Anthropology and Geography (BA) (p. 148)
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The lists below outline programs offered at each of our three campuses as well as those that are offered in an online-only format. While these lists indicate the campus at which a given program is based, some courses may need to be completed online or at another campus. Additionally, some programs are offered on more than one campus, and students should make sure to enroll in courses on their campus of choice as they may be available at multiple locations. Please reach out to the contact for your Area of Study (p. 130) with questions or for more information.

Main CMU Campus

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- Humanities, Liberal Arts (AA) (p. 469)
- Mathematics, Liberal Arts (AS) (p. 541)
- Mechanical Engineering Technology (AAS) (p. 547)
- Medical Laboratory Technician (AAS) (p. 553)
- Physics, Liberal Arts (AS) (p. 619)
- Social Science, Liberal Arts (AA) (p. 650)
- Sports Management, Liberal Arts (AS) (p. 672)
- Surgical Technology (AAS) (p. 680)
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The course descriptions in this catalog indicate the content of the course and prerequisites when applicable. Courses are listed in alphabetical order with a four-letter prefix code, followed by number and title. The number in parentheses at the end of the course title indicates the credit granted, in terms of semester hours, for each course. Generally, the number of semester hours is the number of times a class will meet each week. Exceptions are noted in individual course descriptions and, in most cases, prerequisites and/or corequisites stated. The course number after the prefix indicates the college year in which the courses should ordinarily be taken.

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</tr>
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Colorado Mesa University reserves the right to withdraw any program or course which is not justified due to lack of enrollment or availability of instructor. Other courses may be added if there is sufficient demand. Certain courses are only offered during the fall or spring semesters, or may be available only in alternating years. It is the student's responsibility to meet with their advisor and check the two-year course matrix on the Colorado Mesa University website for course availability. Learn more on the Colorado Mesa University Academics page.

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A basic course that introduces the concepts of bookkeeping, generally accepted accounting principles, and financial statements.
Terms Typically Offered: Fall/Spring/Summer.
ACCT 202 Principles of Managerial Accounting3 Credits
A basic course that introduces the use of accounting information in managerial decision making, control, and planning.
Prerequisites: ACCT 201.
ACCT 311 Advanced Managerial Accounting3 Credits
An advanced course primarily for non-accounting majors that provides in-depth coverage on the applications of accounting information in decision-making, organization, control and planning.
Prerequisites: ACCT 320.
ACCT 321 Intermediate Accounting I5 Credits
Development of a foundational understanding of Generally Accepted Accounting Principles and their application to external financial statements.
Prerequisites: ACCT 201.
ACCT 322 Intermediate Accounting II4 Credits
Continuation of ACCT 321.
Prerequisites: ACCT 321.
ACCT 331 Cost Accounting3 Credits
Costs and their relationship to planning, controlling, inventory valuation, and decision making.
Prerequisites: ACCT 202.
ACCT 341 Financial Accounting3 Credits
A basic course that introduces the concepts of bookkeeping, generally accepted accounting principles, and financial statements.
Prerequisites: ACCT 201.
ACCT 342 Financial Accounting II4 Credits
Continuation of ACCT 341.
Prerequisites: ACCT 341.
ACCT 350 Ethics for Accounting Professionals3 Credits
The field of ethics as applied to the accounting and finance professions. Ethical standards of the profession, accounting and finance scandals in recent history, and methods to overcome ethical dilemmas encountered as professionals.
Prerequisites: ACCT 321.
ACCT 360 Professional Preparation I1 Credit
Professional preparation of resumes and job interviewing skills through mock interviews performed by community professionals using the media studio to videotape and critique the interviewee and review of the resume as it applies to the accounting industry.
Prerequisites: ACCT 201, ACCT 202, and ACCT 321.
ACCT 392 Accounting Information Systems3 Credits
A study of the concepts and design of the Accounting Information System with emphasis on the internal control structures, requirements, and professional standards.
Prerequisites: ACCT 321.
ACCT 393 Cooperative Education3-12 Credits
Cooperative Education provides students an opportunity to put their education to practical use in the workplace under the joint supervision of an employer participating in the Cooperative Education program and a faculty member designated by the institution. (See "Cooperative Education" in this catalog).
Course may be taken multiple times up to maximum of 15 credit hours.
ACCT 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.
ACCT 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
ACCT 399 Internship1-10 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
ACCT 401 Governmental Accounting3 Credits
Accounting principles as they apply to governmental and non-profit units.
Prerequisites: ACCT 322.
ACCT 402 Advanced Accounting3 Credits
Consolidated financial statements, partnership accounting, bankruptcy, and international operations.
Prerequisites: ACCT 322.
ACCT 411 Auditing I3 Credits
Scope and purposes of the attestate work of a certified public accountant focusing on generally accepted auditing standards (GAAS). Includes theory of auditing, professional ethics, legal liability of the auditor, and internal control.
Prerequisites: ACCT 322, and CISB 241 or STAT 241, and senior standing.
ACCT 412 Auditing II3 Credits
Continuation of ACCT 411. This course provides coverage of the application of auditing theory to financial statements, including examination of the audit programs, procedures, and work papers used in each phase of an audit.
Prerequisites: ACCT 411.
ACCT 441 Individual Income Tax4 Credits
Federal Income Tax Law in-depth as it relates to individual taxpayers. Introduction to various tax reference resources.
Prerequisites: ACCT 322, senior standing.
ACCT 442 Advanced Tax and Tax Research5 Credits
Federal Income Tax Law for corporations, partnerships, estates, trusts, and gifts. In-depth experience with tax research resources, research methods and related projects. Required participation in the Tax Assistance Program to acquire practical experience in communication with taxpayers and preparation of tax returns.
Prerequisites: ACCT 441.
ACCT 460 Professional Preparation II1 Credit
This course is a concentrated review of accounting subjects in preparation for the CPA exam using self-study techniques and professor-led discussions and review.
Prerequisites: ACCT 201, ACCT 202, ACCT 321, ACCT 360, ACCT 401, and ACCT 441.
ACCT 470 Fraud and Forensic Accounting3 Credits
Exploration of investigative techniques, interviewing techniques, and reporting processes at different levels of judicial and prosecutorial environments. Specific skills in detecting and investigating fraud developed and various reporting methodologies explored. Includes presentations and speakers from fraud investigative environments.
Prerequisites: ACCT 201.
ACCT 493 Cooperative Education3-12 Credits
See description of ACCT 393.
Course may be taken multiple times up to maximum of 15 credit hours.
ACCT 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.
ACCT 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
ACCT 499 Internship1-9 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
ACCT 500 Managerial Accounting3 Credits
Provides students with an understanding of management information systems which are used in the decision-making process. The class is designed with a "hands-on" approach. It will encourage student participation and interaction through the use of computer projects, case studies, and classroom discussion. Topics covered include basic cost accounting concepts and terminology, product costing and pricing, planning and controlling a business operation through budgets and variance analysis, and managerial decision-making using such techniques as cost-volume-profit analysis and variable costing.

ACCT 505 Advanced Fraud and Forensic Accounting3 Credits
Exploration of investigative techniques, interviewing techniques, and reporting processes at different levels of judicial and prosecutorial environments. Specific skills in detecting and investigating fraud developed and various reporting methodologies explored. Includes presentations and speakers from fraud investigative environments. Demonstration of mastery of material through graduate level projects, writing, and presentations.
Prerequisites: ACCT 201, ACCT 322, and permission of instructor.
ADDICTIONS COUNSELING (ADAP)

ADAP 301 Foundations of Addictions Counseling1 Credit
Provides a foundation for the theoretical, practical, and applied addictions counseling skills necessary for individuals wanting to work in the addictions field.
Prerequisites: PSYC 233.

ADAP 350 Cultural and Ethical Issues in Addictions Treatment1 Credit
Provides an overview of ethical, cultural, and legal considerations associated with the field of addictions.
Prerequisites: ADAP 301.

ADAP 380 Pharmacology and Addictions1 Credit
Provides an overview of pharmacology and infectious diseases associated with the field of addictions.
Prerequisites: ADAP 301.

ADAP 401 Special Populations and Addictions1 Credit
Outlines the unique treatment needs of special addiction populations and the promising new practices within the addictions field.
Prerequisites: ADAP 301.

ADAP 420 Addiction Counseling Approaches1 Credit
Outlines the different evidence-based treatment approaches in the addictions field.
Prerequisites: ADAP 301 and ADAP 350.

ADAP 450 Addictions Assessment and Group Counseling1 Credit
Exploration of the approaches to addictions clinical assessment, treatment planning and group counseling skills as outlined by the Colorado Office of Behavioral Health. Meets the educational requirements for becoming a Certified Addictions Counselor Level II.
Prerequisites: ADAP 301.
Terms Typically Offered: Fall, Spring.

ADAP 499 Internship1-3 Credits
Professional practice with individuals, groups, and communities in various sites under professional supervision.
Course may be taken multiple times up to maximum of 10 credit hours.
AGR 100 Practical Crop Production3 Credits
Corequisites: AGRS 100L.

AGR 100L Practical Crop Production Laboratory1 Credit
Laboratory experiences supporting instruction in the production and adaptation of cultivated crops. Emphasis on crops grown in the western region of the United States. Growth, development, production and use covered.
Corequisites: AGRS 100.

AGR 101 Fermented Beverages3 Credits
Introduction to the fermented beverage industry, relationships between field produce and finished product, and basic sensory attributes and palate training. Emphasizes the wine industry, but also includes cider and beer.
Fees: Yes.

AGR 102 Agriculture Economics3 Credits
Focus on economic principles applied to agriculture through price discovery with producer supply and consumer demand, governmental politics, rural development, and resource management.

AGR 103 Introduction to Entomology2 Credits
Covers insect identification and classification, introduces integrated pest management concepts, and an in-depth study of selected insects of agricultural economic importance.
Corequisites: AGRS 103L.

AGR 103L Introduction to Entomology Laboratory1 Credit
Lab component required for AGRS 103.
Corequisites: AGRS 103.

AGR 104 Agriculture Chemistry3 Credits
Introduction to the basic concepts of chemistry. Areas covered are designed to focus on chemical concepts that a student needs for agriculture-related courses.

AGR 105 Animal Science3 Credits
Fundamentals of livestock production. Principles of breeding, genetics, nutrition, health, and physiology of beef, sheep, swine, dairy, and horses. Focus on the animal science industry in general and each species industry in regard to history, current situation, and future.

AGR 106 Fermentation Science2 Credits
Examination of fundamentals of microbiology and chemistry as they apply to fermented beverages, with an emphasis on the winemaking industry.
Corequisites: AGRS 106L.

AGR 106L Fermentation Science Laboratory1 Credit
Application of fundamentals of microbiology and chemistry as they apply to fermented beverages, with an emphasis on the winemaking industry.
Corequisites: AGRS 106.

AGR 110 Integrated Pest Management3 Credits
Identification and control of economically important weeds, insects and diseases through systems approach management concepts including cultivation, chemical and biological control mechanisms.

AGR 118 Farm Structures and Green Houses3 Credits
Safety, hand and power tool use, farm building planning and site location, concrete, farm building design and construction and materials of construction. Greenhouse design, systems, management, and major greenhouse crops and their cultural needs.

AGR 125 Agricultural Machinery3 Credits
Emphasizes the safe operation, construction, purpose, maintenance and adjustment of farm machinery.

AGR 130 Vineyard Establishment and Management3 Credits
Exploration of vineyard establishment and winter/spring vineyard management practices. Emphasis on site selection, vineyard layout, vine varieties, soil preparation, planting methods, plant establishment and training/management, and tools and equipment.
Prerequisites: AGRS 100/AGRS 100L.
Corequisites: AGRS 130L.

AGR 130L Vineyard Establishment and Management Laboratory1 Credit
Lab component required for AGRS 130.
Corequisites: AGRS 130.

AGR 131 Water and Irrigation: Principles and Practices2 Credits
Exploration of water, soil, and plant relationships; water quality assessment; principles of irrigation, methods, and systems.
Prerequisites: AGRS 100/AGRS 100L.
Corequisites: AGRS 131L.

AGR 131L Water and Irrigation: Principles and Practices Laboratory1 Credit
Applications in water, soil, and plant relationships; water quality assessment; principles of irrigation, methods, and systems.
Prerequisites: AGRS 100/AGRS 100L.
Corequisites: AGRS 131.

AGR 135 Water and Irrigation: Principles and Practices Laboratory1 Credit
Applications in water, soil, and plant relationships; water quality assessment; principles of irrigation, methods, and systems.
Prerequisites: AGRS 100/AGRS 100L.
Corequisites: AGRS 135L.

AGR 135L Water and Irrigation: Principles and Practices Laboratory1 Credit
Applications in water, soil, and plant relationships; water quality assessment; principles of irrigation, methods, and systems.
Prerequisites: AGRS 100/AGRS 100L.
Corequisites: AGRS 135.

AGR 145 Winemaking I3 Credits
Exploration of the winemaking process; winemaking principles such as alcoholic and malo-lactic fermentations; juice additions; and winery hygiene and safety. Includes pre-harvest analyses, grape harvest, fruit processing, and filtration.
Prerequisites: AGRS 100/AGRS 100L and AGRS 106/AGRS 106L.
Corequisites: AGRS 145L.

AGR 165L Winemaking I Laboratory1 Credit
Applications of the winemaking process; winemaking principles such as alcoholic and malo-lactic fermentations; juice additions; and winery hygiene and safety. Includes pre-harvest analyses, grape harvest, fruit processing, and filtration.
Prerequisites: AGRS 100/AGRS 100L and AGRS 106/AGRS 106L.
Corequisites: AGRS 165.

AGR 170 Sensory Analysis3 Credits
Exploration of sensory training specific to wine production with a focus on the details of olfactory and taste transduction mechanisms. The class will focus on specific wine varietals, use of oak in winemaking, secondary fermentation, characteristics, and individual wine component threshold identification.
Prerequisites: AGRS 100/AGRS 100L and AGRS 106/AGRS 106L.
Fees: Yes.

AGR 189 Viticulture Practicum3 Credits
Exploration of vineyard maintenance, through a combination of applied learning and work experience facilitated by experienced growers.
Prerequisites: AGRS 130/AGRS 130L.

AGR 196 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
AGRS 202 Winery Operations and Marketing3 Credits
Analysis of the annual winery operations cycle (includes equipment; health, safety, and sanitation; regulatory compliance requirements; and management of waste, storage, and distribution systems), and product distribution, sales, and marketing. Includes visitation to existing winemaking businesses.

AGRS 205 Farm and Ranch Management3 Credits
Provide students with practical experience in applying principles of economics, business, marketing and finance to the management of a farm/ranch operation.

AGRS 208 Agricultural Finance3 Credits
Emphasizes principles of finance and their application to agriculture and agribusiness, including the time value of money, net present value analysis, interest, credit lending institutions, financial statements and financial ratios.

AGRS 210 Agricultural Marketing3 Credits
Applied study of the agricultural marketing system. Methods of marketing crops and livestock. Emphasis on hedging with futures and options.

AGRS 224 Integrated Ranch Management3 Credits
Management pertaining to the economics of a ranching enterprise. Includes principles of system management, resource inventory and management, ranch decision making, nutrition, selection, record keeping, financial management, and marketing.

AGRS 225 Feeds and Feeding4 Credits
Basic nutrients, common feeds and feed additives, anatomy of digestive systems, and basic feeding practices for beef, sheep, and dairy. Lab devoted to calculating and balancing rations to fulfill nutrient requirements of farm animals for growth, finishing, reproduction, lactation, work, and wool production. Explores least cost ratio balancing.

AGRS 230 Farm Animal Anatomy and Physiology3 Credits
Introduction to basic concepts of farm animal anatomy and physiology. Emphasizes nutrition, reproduction, immunology, and growth of the basic farm species. Anatomy and physiology is taught in the context of applying basic principles to production practices in the industry including reproductive management, livestock nutrition management, and animal health practices.

Prerequisites: AGRS 105.

AGRS 240 Introduction to Soil Science3 Credits
Formation, physical properties, chemical properties and management of soils emphasizing conditions affecting plant growth.

Corequisites: AGRS 240L.

AGRS 240L Introduction to Soil Science Laboratory1 Credit
Formation, physical properties, chemical properties and management of soils emphasizing conditions affecting plant growth in the lab environment.

Corequisites: AGRS 240.

AGRS 245 Winemaking II2 Credits
Exploration of wine filtration, and post-fermentation wine stewardship techniques. Also includes the principles of wine composition, wine analytical techniques, and the relevance of these analyses to winemaking decisions.

Prerequisites: AGRS 165/AGRS 165L.

Corequisites: AGRS 245L.

AGRS 245L Winemaking II Laboratory1 Credit
Applications of wine filtration, and post-fermentation wine stewardship techniques. Also includes the principles of wine composition, wine analytical techniques, and the relevance of these analyses to winemaking decisions.

Prerequisites: AGRS 165/AGRS 165L.

Corequisites: AGRS 245.

AGRS 250 Live Animal and Carcass Evaluation1 Credit
Explores meat carcass evaluation and the related yield and quality grading system. Emphasizes selection of breeding stock based on performance data. Covers comparative selection, grading, and judging of market and breeding classes of livestock based on knowledge of phenotype, performance, information, and/or carcass merit.

Prerequisites: AGRS 105.

Corequisites: AGRS 250L.

AGRS 250L Live Animal and Carcass Evaluation Laboratory2 Credits
Lab component required for AGRS 250.

Prerequisites: AGRS 105.

Corequisites: AGRS 250.

AGRS 255 Viticulture Harvest and Post-harvest Management2 Credits
Exploration of late summer and fall vineyard operations including: maturity sampling, bird netting, and fall harvest. Includes preparation of the vineyard for winter.

Prerequisites: AGRS 100/AGRS 100L.

Corequisites: AGRS 255L.

AGRS 255L Viticulture Harvest and Post-harvest Management Laboratory1 Credit
Application of late summer and fall vineyard operations including: maturity sampling, bird netting, and fall harvest. Includes preparation of the vineyard for winter.

Prerequisites: AGRS 100/AGRS 100L.

Corequisites: AGRS 255.

AGRS 260 Plant Propagation3 Credits
Theory, biology, and practical applications of plant propagation technologies. Propagation by seed, cuttings, budding, grafting, layering and tissue culture. Propagation environment, techniques of stock plant management and seed handling.

AGRS 265 Integrated Plant Health Management3 Credits
Multi-faceted approaches to the management of plant health through analysis of soil characteristics, nutrients, irrigation, and integrated pest management techniques for reducing pest susceptibility and enhancing crop production yield and quality.

Prerequisites: AGRS 100/AGRS 100L.

AGRS 270 Science of Winemaking2 Credits
Investigation of the scientific principles of wine production, including the physiology of grape berry development and wine grape processing.

AGRS 275 Winemaking III3 Credits
Application of winemaking principles to develop the problem-solving skills students will need to enter the workforce. An internship in a winery setting.

AGRS 288 Livestock Practicum3 Credits
Provides experiential learning with beef cattle, dairy cattle, swine and sheep.
AGRS 293 Cooperative Experience 5 Credits
Employment in an agricultural production setting. Work experience in all facets of the operation. Guidance and supervision is the responsibility of the supervising employer and Coordinator of Production Agriculture. Emphasis on records, managerial decisions, and production agriculture skills.

AGRS 296 Topics: 1-4 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
ANTHROPOLOGY (ANTH)

ANTH 202 Introduction to Anthropology-GTSS33 Credits
Human nature and behavior from the broad perspective of contemporary anthropology. Four primary subfields of anthropology, biology, cultural, linguistics, and archaeology discussed to integrate various aspects of the human condition.

Essential Learning Categories: Social and Behavioral Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ANTH 296 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ANTH 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ANTH 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ANTH 495 Independent Study1-4 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ANTH 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
APPLIED BUSINESS (ABUS)

ABUS 101 Budget Analysis 3 Credits
Introduction to the basic elements and concepts of accounting, with emphasis on payroll, budgets, statements, and terms and accounting language.

ABUS 102 Business Basics 3 Credits
Introduction to small business management. This course covers the basic principles of marketing, management and finance needed to manage or start a small business. The course assists in the development of a business plan and introduces methods of financing a business launch.

ABUS 106 Marketing Your Image 1 Credit
Exploration of skills students can use to market themselves to prospective employers, clients, professional groups, and audiences of all types. Major emphasis will be placed on skills used to gain employment (resumes, interview, and professional appearance), and to achieve continued personal success (professional behavior and attitude). The course will include at least one simulated interview.

ABUS 114 Digital Layout 3 Credits
Introduction to InDesign, a page layout program which integrates seamlessly with other Adobe design programs. InDesign delivers creative freedom and productivity to DTP. Class discussions and independent projects supplement hands-on classroom work.

ABUS 116 Principles of Supervision 3 Credits
Introduction to the principles and techniques of supervising and motivating personnel. This course is designed for students who are interested in supervising others or for those currently in supervisory roles. Course content focuses on the human interaction in supervision.

ABUS 120 Digital Design Tools 3 Credits
Exploration of the capabilities of digital cameras, raster photo-editing software, vector drawing software, and digital painting software. The course will cover how these image tools can be applied to create digital images, graphics, and videos.

ABUS 128 Workplace Behavior 3 Credits
Exploration of the importance of effective communication in our personal lives, as well as in the world of business. Practical business applications such as employee motivation, handling customer complaints, and effectively resolving conflict in the workplace will be a major part of the curriculum.

ABUS 145 Data Management 3 Credits
Exploration of a complete array of database skills, includes table, query, form, and report creation and modification. Other topics include application integration and automation of database tasks within the database.

ABUS 155 Social Media for Business 3 Credits
Exploration of social media as a business strategy and how to match that strategy with the goals of the business. This course addresses current trends, ethics, regulations, legal challenges, strategy, content development, and change management. Students develop a better understanding of the similarities and differences between social media marketing and traditional marketing.

ABUS 156 Problem Solving in the Business Environment 3 Credits
Exploration of the problem-solving and decision-making processes. Those processes include: identifying decision elements, recognizing characteristics of good and bad decisions, practicing various approaches to decision making, utilizing a 9-step process for organization decision making, exploring the nature of problems, understanding situation factors, identifying problems, considering the human side of problem solving, and utilizing a 6-step problem solving process.

ABUS 160 Introduction to Customer Service 3 Credits
Principles of customer service, including learning the relationship of self to customers, problem solving, and understanding the importance of communicating with customers. Specific emphasis is given to managing customer expectations by building customer rapport and creating positive outcomes.

ABUS 200 Business Rules and Regulations 3 Credits
Introduction to the contemporary issues, theories, and principles used to effectively manage human resources. Topics include recruiting, hiring, compensation and benefits, training and development, employee relations, and legal issues.

ABUS 257 Managing Office Technology I 3 Credits
Introduction to basic computer terminology, file management, and PC system components. Provides an overview of office application software including word processing, spreadsheets, and presentation graphics. Includes the use of a web browser to access the internet.

ABUS 258 Managing Office Technology II 3 Credits
Introduction to a wide range of uses of the electronic spreadsheet with special emphasis on using it as a business tool. Includes fundamentals and terms, creating and saving workbooks, entering and using formulas, formatting, printing, multiple-page workbooks, creating charts, entering and using functions, managing lists, and simple macros.

ABUS 289 Applied Business Capstone 3 Credits
Exploration of presentation techniques, regarding both verbal and nonverbal skills. Demonstrate presentation techniques using supporting knowledge gained from current academic program.
ARKE 205 Principles of Archaeology - GTSS33 Credits
Investigation of modern archaeology as an interdisciplinary anthropological science. Explores the objectives, methodologies and ethics of reconstructing prehistoric life.

Essential Learning Categories: Social and Behavioral Sciences

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ARKE 225 Introduction to North American Archaeology3 Credits
Survey of archaeology in North America, highlighting the Mississippi Mound builders, eastern cultures, Aztecs, and Maya. Development of archaeological theory and its application to the study of prehistoric sites in North America. Work with archaeological material curated at the Museum of Western Colorado.

ARKE 300 Human Evolution3 Credits
Surveys human biological and cultural evolution from the Pliocene to the Pleistocene. Covers paleontological, archaeological and behavioral approaches to our evolutionary history. Provides basic introduction to Darwinian natural selection.

Prerequisites: ANTH 202 or ARKE 205.

ARKE 301 The Emergence of Human Culture3 Credits
Surveys human cultural evolution from the lower Paleolithic to modern hunter-gatherer communities using archaeological and ethnographic approaches. Explores how our physiology and social behaviors are related to foraging.

Prerequisites: ANTH 202 or ARKE 205.

ARKE 302 From Domestication to States3 Credits
Exploration of human prehistory from the end of the Pleistocene to the evolution of state-level political organization 5000 years ago. Examples are drawn from around the globe.

Prerequisites: ANTH 202 or ARKE 205.

ARKE 320 Colorado Archaeology3 Credits
Surveys the prehistory of Colorado and adjacent portions of the Great Plains and Intermountain West from the Paleoindian era to the Protohistoric period. The focus will be on regional sequences and the major research questions.

Prerequisites: ANTH 202 or ARKE 205.

ARKE 325 Geoarchaeology3 Credits
Introduction of aspects of geological science used to solve archaeological problems. Survey of the sub-fields of geology pertinent to archaeological data recovery, site formation processes, and site interpretation in the Mountain west. Includes aspects of physiography, geomorphology, Quaternary stratigraphy, geochemistry and mineralogy, and lithic materials identification.

Prerequisites: ARKE 205 and GEOL 111/GEOL 111L.

ARKE 350 Southwest Archaeology3 Credits
Prehistory and cultural background of the southwestern United States. Archaeological sites of Colorado, Utah, Arizona and New Mexico highlighted. Introduction to cultures inhabiting these areas for the last 5,000 years with emphasis on the Anasazi, Fremont, Uto-Aztecans and Athabaskan groups.

Prerequisites: ARKE 205.

ARKE 352 Paleindian Archaeology3 Credits
Multifaceted analysis of the controversies surrounding the colonization of the western hemisphere and the Pleistocene and early Holocene archaeology of North America.

Prerequisites: ANTH 202 or ARKE 205.

ARKE 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ARKE 396 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARKE 402 Cultural Resource Management3 Credits
Introduction to the principles and practice of public archaeology. Topics include cultural resource legislation, project management, the National Register of Historic Places, and the federal and state offices in charge of managing archaeological heritage.

Prerequisites: ARKE 205 and ARKE 225.

ARKE 410 Field Methods in Archaeology3 Credits
Overview of contemporary methods of archaeological survey, site recording, and excavation techniques. Artifact collection, interpretation, and analysis presented as is record keeping, artifact conservation, and curation. Topics include maps and mapping, geographic information systems (GIS), Global Positioning System (GPS), field and specimen photography, recovery and analysis of supplemental materials (macrobotanical, pollen, chronometric, etc.).

Prerequisites: ARKE 205 and ARKE 225.

Corequisites: ARKE 410L.

ARKE 410L Field Methods in Archaeology Laboratory2 Credits
Lab component required for ARKE 410.

Prerequisites: ARKE 205 and ARKE 225.

Corequisites: ARKE 410.

ARKE 466 Field Research in Archaeology6 Credits
Exploration of modern archaeological practice. Over six weeks students will take part in archaeological field research including excavation, survey, mapping, and occasionally rock art recording. Field trips to significant western Colorado sites will be taken.

Prerequisites: ARKE 205, ARKE 410, and ARKE 410L.

ARKE 467 Archaeology Lab Methods3 Credits
Introduction to techniques of laboratory cataloging, artifact analysis, and technical report writing. Photography, special sample preparation and other ancillary topics will also be discussed. Students must have completed ARKE 466 during the previous summer because they will be working with artifacts and other materials recovered during that course.

Prerequisites: ARKE 466.

Corequisites: ARKE 467L.

ARKE 467L Archaeology Laboratory1 Credit
Lab component for ARKE 467.

Prerequisites: ARKE 466.

Corequisites: ARKE 467.

ARKE 496 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

Fees: Yes.

ARKE 499 Internship3-12 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
ART (ARTE)

ART 101 Two-Dimensional Design-GTAH13 Credits
The principles of form and function in two-dimensional design with emphasis on color theory and use. Two hours of lecture and two hours of studio per week.

Essential Learning Categories: Fine Arts
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ART 102 Three-Dimensional Design-GTAH13 Credits
Introduction to principles of form and function in three-dimensional design with emphasis on materials, process, and craftsmanship.

Essential Learning Categories: Fine Arts
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ART 115 Art Appreciation-GTAH13 Credits
Some of the hows, whys, and whos of painting, sculpture, and functional design in selected periods and places. This course is intended for non-art majors. Art majors should take ARTE 118 instead.

Essential Learning Categories: Fine Arts
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ART 118 History of Art, Prehistory to Renaissance-GTAH13 Credits
Survey of the development of art from Prehistory to the emergence of the Renaissance. Course focus will be the study of major monuments to gain an understanding of the important factors that defined the artistic production of each civilization and historic period.

Essential Learning Categories: Fine Arts
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ART 119 History of Art, Renaissance to Present-GTAH13 Credits
Survey of the development of art from the Renaissance to the late 20th century. Course focus will be the study of major monuments to gain an understanding of the important factors that defined the artistic production of different historic periods.

Essential Learning Categories: Fine Arts
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ART 196 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ART 294 Sophomore Seminar3 Credits
Development of intended personal direction for creative activity and scholarly work in upper division studio and art history courses. Honing creative critical thinking skills through formal analysis of artwork; art critiques; basic art theory and contemporary art concepts; developing the annual juried student art exhibition; fundamentals of matting, framing, basing, and portfolio development; woodshop safety; exposure to local and regional art scene; and exploring career options in art.

Prerequisites: ARTH 220.

ART 296 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ART 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ART 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ART 399 Internship3 Credits
Placement in a gallery, art center, or museum setting. The student is expected to complete 135 clock hours.

Prerequisites: Permission of instructor.

ART 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ART 498 Studio Assistant and Teaching Aid3 Credits
Designed for the senior level artist. Gain experience in teaching by preparing demonstrations and performing in-studio maintenance of studio equipment. Taught in conjunction with 200-level classes.

Prerequisites: Permission of instructor.

ART 499 Internship3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

Prerequisites: Permission of instructor.

ART 499 Internship3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

Prerequisites: Permission of instructor.
ART - ANIMATION (ARTA)

ARTA 123 Lights! Camera! Action3 Credits
Exploration of fundamental components of animation, digital filmmaking, and motion design. Students explore character design, styles of animation, digital filmmaking, and motion design while focusing on the elements of light, sound, and motion as key time-based design factors. Individual and group projects.
Fees: Yes.

ARTA 222 Principles of Digital Photography3 Credits
Exploration of photographic principles through the use of the digital single lens reflex camera.
Fees: Yes.

ARTA 223 Image and Motion3 Credits
Introduction to tools, techniques, and practices relating to images and time-based media. Integration of images, typography, digital film, and sound.
Fees: Yes.

ARTA 224 Principles of Film and Motion Design3 Credits
Exploration of motion design and time-based visual imagery. Includes history of motion design, application of motion design as visual communication, and the integration of animation, film, images, typography, and sound. Current trends in motion design media and technologies.
Prerequisites: ARTE 101 and ARTE 102.
Fees: Yes.

ARTA 225 Principles of Animation3 Credits
Introduction to the creation of animated works. Survey of animation principles, history, tools, and techniques. Additional focus on story development, storyboarding, and stop motion animation.
Fees: Yes.

ARTA 296 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTA 322 Intermediate Photography3 Credits
Discovery of vision and the art of seeing through the lens of a camera.
Prerequisites: ARTE 101 and ARTA 222.
Fees: Yes.

ARTA 323 Character Design and Story Concepts3 Credits
Animators, filmmakers and motion designers tell stories. Stories have scripts, characters, props, and environments. This course is designed to guide students in developing their stories, characters and the related content. It is also an area of specialization within time-based media.
Prerequisites: ARTA 223, ARTA 224, and ARTA 225.
Fees: Yes.

ARTA 324 Two-Dimensional Animation and Motion Design3 Credits
Exploration of the creation of two-dimensional animation and motion design utilizing multilayered time-based compositions, compositing, special effects, puppet animation, and time manipulation. Additional focus on storytelling, storyboards, pre-production, production, and post-production.
Prerequisites: ARTA 223, ARTA 224, and ARTA 225.
Fees: Yes.

ARTA 325 3D Digital Modeling3 Credits
Exploration of the basics of 3D animation. Focus on modeling, texturing, lighting, cameras, animation, and rendering. Emphasis will also be on creative expression in these areas.
Prerequisites: ARTA 223, ARTA 224, and ARTA 225.
Fees: Yes.

ARTA 326 Digital Filmmaking3 Credits
Exploration of advanced motion design techniques. Manipulation of related audio, image, animation, typography, and visual effects. Focus on movement, cutting, shot selection, timing, rhythm, matching action, story arc, typography, choreography, light, and color. Historical progression of editing techniques. Production includes output to various web, mobile, or digital devices.
Prerequisites: ARTA 223 and ARTA 225.
Fees: Yes.

ARTA 327 Sound Principles and Production3 Credits
Examination of techniques and applications of sound as a component of time and time-based media. Technical, historical, aesthetic, conceptual, recording, and editing issues will be explored in depth. Designed to introduce the student to some of the major modes of working with sound through projects that explore the relationship of sound to image.
Prerequisites: ARTA 223 and ARTA 225.
Fees: Yes.

ARTA 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTA 421 Advanced Filmmaking3 Credits
Advanced studies in digital filmmaking focusing on each student's individual creative interests such as experimental filmmaking or the combination of film with additional media.
Prerequisites: ARTA 326.
Terms Typically Offered: Fall, Spring.

ARTA 422 Advanced Photography and Studio Lighting3 Credits
Exploration of light and the development of a studio lighting portfolio.
Prerequisites: ARTE 101, ARTA 222, and ARTA 322.
Fees: Yes.

ARTA 424 Animation, Film, Photography and Motion Design Studio I3 Credits
Exploration of advanced individual projects in animation, film, photography and motion design. Students are encouraged to focus on advanced individual projects based on perfecting their personal interests and focusing on career goals.
Prerequisites: ARTA 322, ARTA 323, ARTA 324, ARTA 325, ARTA 326 and ARTA 327.
Fees: Yes.

ARTA 425 Animation, Film, Photography and Motion Design Studio II3 Credits
Continuation of ARTA 424. Students submit proposals for individual projects focusing on singular or combined work in animation, film, photography and motion design. Emphasis is placed on the professional presentation of finished projects.
Prerequisites: ARTA 424.
Fees: Yes.
ARTA 426 Advanced Motion Studio 3 Credits
Development of emerging personal direction. Opportunities for unique, experimental, and personal projects working individually or in collaboration with other students.
Prerequisites: Upper division standing and permission of instructor. Course may be taken multiple times up to maximum of 6 credit hours. Fees: Yes.

ARTA 427 Portfolio and Demo Reel 3 Credits
Preparation of demo reel, resume, and promotional materials for entry into the professional job market.
Prerequisites: ARTA 424. Fees: Yes.

ARTA 496 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTA 499 Internship 3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
ART - ART EDUCATION (ARTD)

ARTD 196 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTD 296 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTD 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ARTD 396 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTD 410 Elementary Art Education Methods3 Credits
Explorations of theory, methods and materials for teaching art, kindergarten through sixth grade. Required for K-6 elementary teachers and K-12 Art Education majors. Studio applications, aesthetics, creative problem solving, art history, lesson and unit plans explored.
**Prerequisites:** EDUC 115, EDUC 215, EDUC 343, all with a grade of "B" or higher.
**Corequisites:** ARTD 410L.

ARTD 410L Field/Studio Experience in Elementary Art Education Methods1 Credit
Required for K-12 art education majors only. Forty field hours in local public schools.
**Prerequisites:** EDUC 115, EDUC 215, EDUC 343, all with a grade of "B" or higher.
**Corequisites:** ARTD 410.

ARTD 412 Secondary Art Education Methods4 Credits
Seminar that covers theory, methods and materials for teaching art in middle and high schools, grades 7-12. Applies options in teaching through embedded field hours. Development of a year-long art curriculum. Required for K-12 Art Education majors.
**Prerequisites:** EDUC 115, EDUC 215, EDUC 343, all with a grade of "B" or higher.

ARTD 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ARTD 496 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTD 596 Topics:0.5-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
ART - ART HISTORY (ARTH)

ARTH 196 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTH 220 History of Modern Art3 Credits
A general survey class of Western and non-Western art from 1750 to the 21st Century. The emphasis of this survey is on the major movements and civilizations, methods of analysis, historical and cultural context.
Prerequisites: ARTE 101, ARTE 102, ARTE 118, and ARTE 119.

ARTH 296 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTH 315 Nineteenth-Century Art3 Credits
Comprehensive survey of the major art movements of the nineteenth century: Neoclassicism, Romanticism, Academic Art, the invention of photography, Realism, Impressionism, Post-Impressionism, Symbolism, and Art Nouveau.
Prerequisites: ARTE 118 and ARTE 119.

ARTH 316 20th Century Art to 19503 Credits
Foundations of modernism from Post-Impressionism through Surrealism through the study of major artists and art works and related manifestations including important theories of modern art, the modernist transformation of design aesthetics, and social and political reactions to modern art.
Prerequisites: ARTE 118 and ARTE 119.

ARTH 317 American Art History3 Credits
Examination of art and artists of America from colonial times up to the present with attention to the role of the artist and the visual arts in American social experiment.
Prerequisites: ARTE 118 and ARTE 119.

ARTH 318 Development of Contemporary Art3 Credits
Examination of art produced within the past 40 years with attention to the plurality of successful styles and subjects pursued by artists, the increasingly important role of the art critic and the contemporary art museum in interpreting trends, the impact of the commercial art market on the production and dissemination of contemporary art, and various experimental art forms developed by artists to counteract the influence of critics, institutions and commercial interests.
Prerequisites: ARTE 118 and ARTE 119.

ARTH 319 Art of the American West3 Credits
Examination of the artist’s encounter with the West as both real and imagined experience from the works of expeditionary artists of the early 19th century to recent large scale “earthworks” that transform the Western landscape. Emphasis on the works of the major 19th century protagonists of the heroic Western image as well as the important role of Santa Fe and other Western locations in the development of a Western art tradition.
Prerequisites: ARTE 118 and ARTE 119.

ARTH 320 Symbolism to Surrealism: Art & the Subconscious3 Credits
Examination of artistic fascination with symbolic meaning and suggestive content as a vehicle to explore myth and the subconscious from the late 19th century through the 20th century. Focus on how symbolic meaning is conveyed through visual content and theories about the role of myth and subconscious imagery in artistic experience.
Prerequisites: ARTE 118, ARTE 119, and ARTH 315.

ARTH 321 Gothic and Northern Renaissance Art and Architecture3 Credits
Architectural accomplishments of Gothic style and the revival and development of painting and sculpture from the Gothic period through the Renaissance in the North. Includes invention of oil painting, growth of realism and direct observation of the real world in art, and effects of the Protestant Reformation on artistic styles and content.
Prerequisites: ARTE 118 and ARTE 119.

ARTH 322 Expressionism in 20th Century Art3 Credits
Expressionism in Germany during the early 20th century and its recurrence in the latter half of the 20th century. Visual language of expressionism as a distinctive style and the artistic goals of Expressionism that define a specific role for the artist in society.
Prerequisites: ARTE 118, ARTE 119, and ARTH 316.

ARTH 323 History of Modern Architecture3 Credits
Modern architecture as a form of applied artistic expression. Examination of major stylistic developments in architecture and applied design from 19th century historically-inspired styles through 20th century innovations that transformed traditions of architectural design and the role of the architect in modern society.
Prerequisites: ARTE 118 and ARTE 119, and ARTH 315 and ARTH 316.

ARTH 324 History of Graphic Design3 Credits
Exploration of the history of graphic design from the advent of writing through the digital revolution, focusing on development of design techniques and styles.
Prerequisites: ARTE 118 and ARTE 119.

ARTH 325 Italian Renaissance Art History3 Credits
Explores origins, development, and end of Italian Renaissance. Late thirteenth to mid-sixteenth century. Emphasis on major works of sculpture, painting, architecture, and the artists responsible for their creation.
Prerequisites: ARTE 118 and ARTE 119.

ARTH 326 Medieval Art: Early Christian to the Romanesque3 Credits
Explorations of Christian art through time and geographic regions. Emphasizes major works including sculpture, manuscripts, and architecture as well as the forces which shaped their creation and determined their meaning and significance.
Prerequisites: ARTE 118 and ARTE 119.

ARTH 327 History of Western Architecture3 Credits
Explores beginnings of architecture in prehistory and traces development through time and geographic regions through the end of the Italian Renaissance. Emphasizes major works of architecture with discussions of form, function, and relation to other works of architecture.
Prerequisites: ARTE 118 and ARTE 119.

ARTH 328 History of World Ceramics3 Credits
Comprehensive survey of historical ceramic production across the globe. Examination of the role ceramics has played in relation to art and culture of the world. Focus on typology and identification of ceramic objects from prehistory through the modern era.
Prerequisites: ARTE 118 and ARTE 119.

ARTH 329 Maya Architecture & Ceramics2 Credits
Comprehensive survey of major Maya archaeological sites, Maya ceramics, and the social and political context of art within the Maya culture. Focus on symbolism of Maya religion in architecture and ceramics.
Prerequisites: ARTE 118 and ARTE 119.
ARTH 330 Maya Architecture and Ceramics Field Study and Community Service Project 2 Credits
On-site exploration of Maya archeological ruins in the Yucatan Peninsula of Mexico. Experiential learning of Maya art and archeology and the historic Maya culture through field study. Compilation of visual and personal accounts of site visits through documentation. Community service presentation of ceramic art and technique to Dual Immersion Academy students.

ARTH 331 History of the Moving Image 3 Credits
Exploration of the history of the moving image from the pre-industrial era through the contemporary and digital era, focusing on the history of both technological and artistic development, and the moving image in its varied types.

Prerequisites: ARTE 118 and ARTE 119.
Terms Typically Offered: Fall.

ARTH 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ARTH 396 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTH 400 Criticism and Research: Theory and Method 3 Credits
Introduction to the development of art history as a discipline and how art historians evaluate and interpret complex issues of style, form, content and theory in visual art. Structured discussion of historical art works studied in other upper division art history courses. Readings of seminal art historical theories and interpretive methodologies. Hands-on practice with library research tools. Completion of a fully researched term paper.

Prerequisites: ARTE 118 and ARTE 119, ARTH 315 or ARTH 316 or permission of instructor.

ARTH 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ARTH 496 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTH 499 Internship 1-12 Credits
ART - GRAPHIC DESIGN (ARTG)

ARTG 122 Design It!3 Credits
Exploration of design as the foundation of all the visual arts. Approaching design through a broad hands-on tactile experience.
Fees: Yes.

ARTG 196 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTG 201 Adobe Illustrator2 Credits
Introduction. Techniques for using vector-based drawing program explored through exercises to learn the application and features as used by graphic designers for print and electronic media.

ARTG 202 Adobe Photoshop2 Credits
Introduction. Techniques for using raster-based software for print, video, web and other multi-media applications.

ARTG 203 Adobe InDesign2 Credits
Techniques for using the program explored. Exercises to learn the application and features as used by graphic designers and professional publishers.

ARTG 215 Graphic Design I3 Credits
Basic use and operation of graphics computer, exclusively Macintosh, with focus on terminology, hardware, peripheral devices, system management, and software (systems and applications). Including establishment of operation files, job information files, information capture and placement, and maintenance.
Fees: Yes.

ARTG 221 Graphic Design II3 Credits
Principles of design and layout techniques, including thumbnail, rough, and comprehensive layouts: work planning and preparation of artwork with focus on computer and hand generated images.
Prerequisites: ARTE 101, ARTE 102, ARTG 215.
Corequisites: ARTG 222.
Fees: Yes.

ARTG 222 Illustration I3 Credits
Approaches to traditional and contemporary illustration. Materials will be introduced and developed for practical use.
Prerequisites: ARTG 215.
Corequisites: ARTG 221.
Fees: Yes.

ARTG 296 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTG 301 Digital Illustration3 Credits
Advanced creation of digital imagery focusing on visual content and composition in print and multi-media applications.
Prerequisites: ARTG 215, ARTG 221, and ARTG 222.
Fees: Yes.

ARTG 320 Letterforms and Typography3 Credits
Study of letterforms and typography including terminology, type style identification and design, use of type within a design, composition, copyfitting, and basic principles of pattern and spatial design.
Prerequisites: ARTG 215 and ARTG 221.
Fees: Yes.

ARTG 321 Advanced Typography3 Credits
Explore traditional and contemporary forms of typography and compositions through letterpress and hand rendering approaches.
Prerequisites: ARTG 320.
Fees: Yes.

ARTG 333 Illustration III3 Credits
Illustration techniques in context of contemporary materials and methods. Advanced use of materials.
Prerequisites: ARTG 221 and ARTG 222.
Fees: Yes.

ARTG 337 Illustration III3 Credits
Storytelling through traditional and contemporary illustration medium. Emphasis placed on developing concepts, execution and professional practices.
Prerequisites: ARTG 333.
Fees: Yes.

ARTG 338 Advertising Design I3 Credits
Exploration of the various graphic communication applications common to the promotion of products and services, including brochures, posters, mailers, package design, and other items designed for print. Emphasis will be placed on design processes, prepress print production and the history of advertising.
Prerequisites: ARTG 301 and ARTG 320.
Fees: Yes.

ARTG 339 Advertising Design3 Credits
Advanced exploration of the various graphic communication applications common to the promotion of products and services, including brochures, posters, mailers, package design, and other items designed for print. Emphasis will be placed on design processes, prepress print production and the history of advertising.
Prerequisites: ARTG 301, ARTG 320, and ARTG 338.
Fees: Yes.

ARTG 373 Screen Printing for Graphic Design3 Credits
Introduce concepts and techniques of screen printing within Graphic Design and Illustration. Become familiar with industry tools, equipment and processes.
Prerequisites: ARTG 221.
Fees: Yes.

ARTG 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ARTG 396 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTG 401 Digital Painting3 Credits
Introduction to the language of digital painting. Fundamental skills of proportion, perspective, and color mixing. Translating light and color into a digital space. Perceptual problem solving in the practical application of digital painting.
Prerequisites: ARTG 301.
Fees: Yes.

ARTG 405 Website Design3 Credits
Creation and development of well-designed and functional Web pages/sites to accommodate clients’ promotional and business needs. Topics covered include software, creation of graphics, publishing, design theory for the Web, typography and promotion.
Prerequisites: ARTG 301 and ARTG 320.
Fees: Yes.
ARTG 406 UX Design 3 Credits
Investigation, analysis and application of User Experience and emerging
website design trends.
Prerequisites: ARTG 405.
Fees: Yes.

ARTG 421 Contemporary Letterpress 3 Credits
Approaches to traditional and contemporary letterpress. Materials will be
introduced and technique developed for practical use.
Prerequisites: ARTG 221.
Course may be taken 2 times for credit.

ARTG 437 Illustration IV 3 Credits
Advanced illustration development focusing on concept, content,
materials and techniques. Emphasis on individual artistic style and
personal visual communication perception.
Prerequisites: ARTG 337 or permission of instructor.
Fees: Yes.

ARTG 450 Identity Design 3 Credits
Exploration of visual communication designed for public and private
business and organization identity. Emphasis will be placed on the
process of design and approaches to image generation for identity
systems and standards.
Prerequisites: ARTG 301 and ARTG 320.

ARTG 493 Portfolio Development 3 Credits
Development of portfolio materials to be used for gaining employment.
Emphasis placed on current industry professional practices including
presentation formats, resume development, contracts and salary
negotiations.
Prerequisites: ARTG 405 and ARTG 406.
Fees: Yes.

ARTG 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ARTG 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTG 499 Internship 3 Credits
Placement in an agency or corporate department to provide an enhanced
transition from the classroom to the work setting through first-hand
experience. The student is expected to complete 135 clock hours.
Prerequisites: ARTG 450.
ART - SCULPTURE/STUDIO (ARTT)

ARTT 270 Sculpture I 3 Credits
Introduction of technique and processes practiced in advanced sculpture courses. Basic welding, mold making, bronze casting and fabrication/construction using multimedia explored. Development of aesthetic concepts stressed and their successful applications. Projects conclude with group critiques.
Fees: Yes.

ARTT 371 Sculpture/Construction I 3 Credits
Exploration of MIG welding, beginning metal fabrication techniques, woodworking and multimedia. Historical contexts. Aesthetic concepts stressed and projects conclude with group critiques.
Prerequisites: ARTT 270.
Fees: Yes.

ARTT 372 Sculpture/Construction II 3 Credits
Introduction of advanced fabrication techniques and tools in steel, wood and multimedia. Advanced finishes and finishing techniques also introduced. Continued focus on historical contexts.
Prerequisites: ARTT 371.
Fees: Yes.

ARTT 380 Bronze/Casting I 3 Credits
Bronze casting using the lost wax process and ceramic shell. Includes history, terminology, equipment, and procedure. Includes working in wax, sprueing the art, ceramic shell investment, technical-pouring procedures, devesting the shelled patina. Studio emphasis on technique and creative process ending in finished bronze sculpture.
Prerequisites: ARTT 270.
Fees: Yes.

ARTT 381 Bronze/Casting II 3 Credits
Creating in wax using various techniques. Explorations in wax using representational and abstract forms. Advanced finishes and patinas introduced.
Prerequisites: ARTT 380.
Fees: Yes.

ARTT 471 Sculpture/Construction III 3 Credits
Sculpting in steel, wood and multimedia. Introduction to forge work. Direction chosen based on interests in materials and processes taught in previous sculpture/construction courses. Independent work via professor contract.
Prerequisites: ARTT 371.
Fees: Yes.

ARTT 472 Sculpture/Construction IV 3 Credits
Thematic concepts for development of a BFA exhibit explored. Independent work via professor contract.
Prerequisites: ARTT 471.
Fees: Yes.

ARTT 475 Sculpture Workshop I 3 Credits
Continued focus on a student's individual BFA direction. Independent work via student/professor contract.
Prerequisites: ARTT 472.
Fees: Yes.
ART - STUDIO ART (ARTS)

ARTS 110 Digital Photography3 Credits
Exploration of digital photography through technical and creative skill development. Use of the digital single lens reflex camera.
Fees: Yes.

ARTS 151 Foundation Drawing I3 Credits
Introduction to drawing with an emphasis on perceptual drawing. Perspective, light, shadow, form, volume, and mark-making strategies are explored, as well as an introduction to composition using a variety of media. Preparation for more advanced art classes.

ARTS 152 Foundation Drawing II3 Credits
Continuation of ARTS 151. Further development of drawing techniques, including objective and subjective drawing, using calligraphic line, gesture, and caged volume. Introduction to color in drawings. Introduction to contemporary drawing strategies.
Prerequisites: ARTS 151.

ARTS 196 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTS 221 Metalsmithing3 Credits
Prerequisites: ARTE 102 or permission of instructor.
Fees: Yes.

ARTS 231 Fibers Workshop I3 Credits
Introduction to fiber and fabric art forms, including creation of original weaving, felt and fabric collage, batik and other applications.
Prerequisites: ARTE 101 and ARTS 151.

ARTS 241 Beginning Hand Building3 Credits
Introduction to the ceramic process using traditional materials and methods for hand formed ceramics objects. Involvement in clay from raw material through the glazing and firing process. Studio emphasis on technique and creative process.
Fees: Yes.

ARTS 242 Beginning Wheel Throwing3 Credits
Beginning throwing processes. Creating vessels while learning the technique of shaping clay by throwing. Form and function explored. Initial firing process for bisque fire taught. Development of under-glaze and glaze techniques.
Fees: Yes.

ARTS 251 Life Drawing3 Credits
Introduction to drawing the human figure. Issues of form, structure, volume, movement, composition, and expressive possibilities are explored and practiced.
Prerequisites: ARTE 101 and ARTS 152.
Fees: Yes.

ARTS 252 Mixed Media Drawing3 Credits
Artistic exploration of experimental media, dry and wet, and alternative media alone or combined on varied drawing surfaces to give dimension, texture and vitality to a drawing. Figure and still life are main subject matter for observational approach.
Prerequisites: ARTS 251.
Fees: Yes.

ARTS 270 Screen Printing3 Credits
Introduction to concepts and techniques of screen print in a commercial and fine art environment. Includes multiple layer registration, CMYK process prints, linear printing with textiles, and secondary printing on 3D objects. Students will build their own portable press.
Prerequisites: ARTE 101.
Fees: Yes.

ARTS 274 Printmaking: Intaglio and Relief3 Credits
Introduces concepts and techniques of intaglio and relief printmaking processes. Includes non-acid and acid intaglio techniques such as drypoint, hard ground/line etch, soft ground, aquatint, multiple plate printing, a la poupee wiping, and chine-colle. Relief processes include linoleum cut and woodcut.
Prerequisites: ARTE 101.
Fees: Yes.

ARTS 291 Painting I: Intro to Painting3 Credits
Introduction to the language of painting through studio practice. Fundamental skills of color mixing and practical applications of painting and how they relate to perceptual problem solving. Focus on light and color and how it translates into pictorial space through observational painting.
Prerequisites: ARTS 151.
Fees: Yes.

ARTS 296 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTS 312 Metalsmithing3 Credits
Prerequisites: ARTS 151 and ARTS 221.
Fees: Yes.

ARTS 331 Fibers Workshop II3 Credits
Intermediate examination of several fiber or fabric applications.
Prerequisites: ARTS 231.

ARTS 342 Throwing Workshop I: Intermediate Throwing3 Credits
A continuation of the throwing process involving more complex vessels and techniques using lids, spouts, and pedestals. Assignment to firing teams for studio production for high fire clay.
Prerequisites: ARTS 242.
Fees: Yes.

ARTS 344 Throwing Workshop II3 Credits
Alteration of thrown vessels using several techniques, including wet shaping, leatherhard shaping, marks, incising, and stamping. Creating larger vessels using a two-piece technique. Kiln teams assigned for high firings. Develop and study glazes and empirical formulas. Introduction to basic molecular composition of raw materials.
Prerequisites: ARTS 342.
Fees: Yes.

ARTS 351 Drawing Workshop I3 Credits
Traditional and contemporary drawing processes and advanced compositional strategies. Perceptual, abstract, and conceptual ideas explored within the context of strengthening the artist’s formal skills and idea development. Individual and group critiques ongoing.
Prerequisites: ARTS 152.
Fees: Yes.

ARTS 352 Drawing Workshop II3 Credits
Formal mastery of the visual language and development of a personal artistic direction. Critical thinking skills about individual artistic influences explored. Individual and group critiques ongoing.
Prerequisites: ARTS 351.
Fees: Yes.
ARTS 353 Visual/Conceptual Thinking 3 Credits
Learning meaningful questioning. Engaging in creative problem solving. Assumptions about art questioned. Media selection is not limited; problems posed may be solved with 2D or 3D media.
Prerequisites: ARTS 251.

ARTS 354 Intermediate Life Drawing 3 Credits
Continuation of the study of the human figure through an exploration and practice of composition, form, structure, volume, movement, anatomy and drawing processes.
Prerequisites: ARTS 251.
Course may be taken 2 times for credit.
Fees: Yes.

ARTS 360 Sketchbook 3 Credits
The sketchbook as a primary medium for developing creativity and the artist's thought processes. Exploring exercises and field assignments for building an approach to keeping a sketchbook as a place for ideas and recording the artist's visual experience.
Prerequisites: ARTE 101 and ARTS 152, or permission of instructor.
Fees: Yes.

ARTS 362A Artists' Books 1 Credit
Introduction to the art of making visual books, including book structure, binding techniques, and strategies for developing sequential imagery.
Prerequisites: ARTE 101 and ARTS 152, or permission of instructor.

ARTS 362B Artists' Books 1 Credit
Continuation of the art of making visual books, including book structure, binding techniques, and strategies for developing sequential imagery.
Prerequisites: ARTE 101 and ARTS 152, or permission of instructor.

ARTS 362C Artists' Books 1 Credit
Further exploration of the art of making visual books, including book structure, binding techniques, and strategies for developing sequential imagery.
Prerequisites: ARTE 101 and ARTS 152, or permission of instructor.

ARTS 364 Figure Painting I 3 Credits
Exploration of proportion, perspective and volume through painting from a model. Investigation of various techniques and conceptual development encouraged through use of oil or acrylic. Individual and group critiques.
Prerequisites: ARTS 251 and ARTS 291.
Fees: Yes.

ARTS 365 Painting II: Methods and Materials 3 Credits
Exploration and experimentation with various techniques, materials, and alternative processes inherent to contemporary painting. Through this exploration of painting, students will begin to develop a direction of investigation and a conceptual framework for their own personal painting practice.
Prerequisites: ARTS 151.
Fees: Yes.

ARTS 366 Painting 2: Observational Painting 3 Credits
Further exploration of observational painting through various techniques, materials, and processes inherent to contemporary observational painting. This course builds on the foundation of observational painting in ARTS 291 allowing students to further develop their observational painting skills.
Prerequisites: ARTS 291.

ARTS 370 Printmaking: Lithography 3 Credits
Introduces concepts and techniques of fine art lithography, including traditional stone lithography, aluminum plate lithography, and positive plate photo lithography. Black and white, multiple color, hybrid or combination prints, and chine-collé.
Prerequisites: ARTE 151.
Fees: Yes.

ARTS 371 Printmaking Workshop I 3 Credits
Develop skills with intaglio, relief, and lithograph. Exploration of advanced techniques. May include multiple color printing processes, engraving, and collagraph. Work created will be matted.
Prerequisites: ARTS 270 or ARTS 274 or ARTS 370.
Fees: Yes.

ARTS 372 Printmaking Workshop II 3 Credits
Exploration of printmaking media. Investigation of a printmaker of choice to develop critical thinking about personal artistic skills. Artwork created will be matted, shown in a public space, and documented digitally.
Prerequisites: ARTS 371.
Fees: Yes.

ARTS 375 Screen Printing II 3 Credits
Continued development and refinement of the techniques and concepts of fine art screen printing, including in-depth exploration of color, size, scale, and complexity of multiple layer imagery. Emphasis will be put on the development of creative thinking, developing personal artistic concepts, and portfolio development.
Prerequisites: ARTS 270.
Terms Typically Offered: Fall.

ARTS 384 Ceramic Sculpture Workshop I 3 Credits
Creating in clay using various techniques and processes. Explorations with clay includes elements of the figure, representational and abstract, as well as 3D forms as pure sculpture. Artwork based and finished for professional exhibition. Independent work via student/professor contract.
Prerequisites: ARTS 241.
Fees: Yes.

ARTS 385 Summer Institute in Marble, Colorado 3 Credits
Summer symposium at Marble/Marble Carving Symposium. Carve Colorado Yule Marble from the same quarries used in the Lincoln Memorial, the Tomb of the Unknown Soldier and other projects. A fee for the summer institute is in addition to Colorado Mesa University tuition and fees.
Prerequisites: ARTT 270.

ARTS 387 Bronze Commissions: Workshop I 3 Credits
Special bronze commissions and projects as a liaison project with schools or the community. Direct experience at creating art from inception to mounted sculpture. Presentations to respective clients, budgets, armatures, sculpting, molds, wax, investing, and finishing of the bronze. Basing of the sculptures complete the process.
Prerequisites: ARTS 281.

ARTS 388 Ceramic Sculpture Workshop II 3 Credits
Thematic concepts for the development of a BFA exhibition in clay explored. Student / Mentor consultation of utmost importance as the theme is developed. Independent work via student / professor contract. Art work based for professional presentation. Development of glazes including empirical formulas. Introduction to basic chemistry of the molecular composition of raw materials.
Prerequisites: ARTS 384.
Fees: Yes.
ARTS 391 Painting Workshop III Credits
Skills developed in painting media of choice. Exploring advanced techniques to develop individual artistic expression. Discussions of personal influences and historical context ongoing.
Prerequisites: ARTS 291 or ARTS 365.
Fees: Yes.

ARTS 392 Painting Workshop IV Credits
Further investigation of techniques and material in individual painting medium. Personal artistic influences identified tools to aid individual artistic direction. Individual and group critiques are ongoing. End of semester artwork presented in public space and documented digitally.
Prerequisites: ARTS 391.
Fees: Yes.

ARTS 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ARTS 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ARTS 421 Metalsmithing 3 Credits
Prerequisites: ARTS 321.
Fees: Yes.

ARTS 431 Fibers Workshop III Credits
Creating of advanced fiber and fabric artwork; examination of historical precedents.
Prerequisites: ARTS 331.
Fees: Yes.

ARTS 442 Kiln Construction 3 Credits
Ceramics majors. Theory and practice of formulation of glazes utilizing minerals and oxides. Development of glazes includes empirical formula to a batch, batch to an empirical formula, and limit formulas. Basic chemistry of the molecular composition of raw materials. Background in ceramics required.
Prerequisites: Permission of instructor.
Fees: Yes.

ARTS 443 Throwing Workshop III Credits
Advanced problems in clay construction and design with an emphasis on the development of personal style. Develop skills to create thrown multiples in clay. Discussion of marketing and establishing a studio to create clay art.
Prerequisites: ARTS 344.
Fees: Yes.

ARTS 444 Throwing Workshop IV Credits
Exploration of thematic concepts for the development of a BFA exhibit in clay continued. Development of personal style on the potter’s wheel including advanced alteration techniques. Independent work via student/professor contract to create body of artwork with professional presentation.
Prerequisites: ARTS 443.
Fees: Yes.

ARTS 451 Drawing Workshop II Credits
Senior level drawing. Develop drawings used in senior exhibitions and professional purposes. Exploration and analysis of what historical and contemporary context fits individual’s style.
Prerequisites: ARTS 352.
Fees: Yes.

ARTS 452 Drawing Workshop IV Credits
Subject matter, form, and content are determined by the student under the guidance of the instructor. Ability to speak and write articulately about created artwork developed.
Prerequisites: ARTS 451.
Fees: Yes.

ARTS 453 Visual and Conceptual Thinking 3 Credits
Advanced. Continuation of ARTS 353.
Prerequisites: ARTS 353.

ARTS 460 Sketchbook II Credits
Individualized, professional visual and conceptual documentation for the fine artist and designer. Advanced students identify personal goals, explore sketchbook styles, develop compositional approaches, and research media and subject matter (including color) in recording visual experiences.
Prerequisites: ARTS 360.
Fees: Yes.

ARTS 464 Figure Painting II Credits
Advanced level exploration of the human figure in relation to conceptually based narrative paintings. Variety of media is encouraged. Students will use the model to develop a consistent body of work towards their BFA show. Individual and group critiques ongoing as well as discussion about individual concepts and direction.
Prerequisites: ARTS 364.
Fees: Yes.

ARTS 465 Mixed Media Painting 3 Credits
Advanced level bridge between 2D and 3D mediums. Focus on manipulation of various materials to give textural vitality to a conceptually based body of work leading toward the BFA show. Individual and group critiques ongoing as well as discussion of individual concepts and direction.
Prerequisites: ARTS 365.
Fees: Yes.

ARTS 470 Advanced Lithography 3 Credits
Continued development and refinement of techniques and concepts of fine art lithography including polyester plate lithography, independent technical research, and creative critical thinking as applied to the development of personal conceptual artistic direction.
Prerequisites: ARTS 370.
Terms Typically Offered: Spring.

ARTS 471 Printmaking Workshop III Credits
Research a printmaking technique that has not been introduced. Create a print and present the method. Develop a professional portfolio of artwork for senior exhibition and professional shows. Artwork created will be matted and documented digitally.
Prerequisites: ARTS 372.
Fees: Yes.

ARTS 472 Printmaking Workshop IV Credits
Technical refinement and conceptual development. Refining a personal direction for the artist’s imagery. Artwork created will be matted and documented digitally.
Prerequisites: ARTS 471.
Fees: Yes.
ARTS 473 Printmaking Workshop V3 Credits
Creation of a mature and cohesive series of prints that demonstrate a solution or solutions to a creative problem posed by the individual. Artwork will demonstrate technical mastery and conceptual sophistication; student will provide a mature written artist statement and high-quality photo documentation. Oral critique where the artist verbalizes the context of their artwork within the contemporary art world.
Prerequisites: ARTS 472.
Fees: Yes.

ARTS 474 Throwing Workshop V3 Credits
Exploration of the potter’s wheel to develop personal style in the throwing process. Independent work via student/professor contract. Body of work created for professional presentation.
Prerequisites: ARTS 444.
Fees: Yes.

ARTS 484 Ceramic Sculpture Workshop III3 Credits
Thematic concepts for the development of a BFA exhibit in clay continued. Independent work via student/professor contract. Artwork based for professional presentation.
Prerequisites: ARTS 384.
Fees: Yes.

ARTS 487 Bronze Commissions Workshop II3 Credits
Special bronze commissions and projects as a liaison project with schools or the community. Direct experience at creating art from inception to mounted sculpture. Presentations to respective clients, budgets, armatures, sculpting, molds, wax, investing, and finishing of the bronze. Basing of the sculptures complete the process. Continuation of a year-long project at the 400 level.
Prerequisites: ARTS 387.

ARTS 488 Ceramic Sculpture Workshop IV3 Credits
General introduction to media, techniques, and history of ceramic art to create a deeper appreciation for the creative ceramics process. Further development of thematic concepts for the development of a BFA exhibit in clay. Independent work via student/professor contract.
Prerequisites: ARTS 484.
Fees: Yes.

ARTS 491 Painting Workshop III3 Credits
Workshop III continues development of professional portfolios of artwork used for senior exhibitions and other professional shows. Artistic influences explored. Oral and written communication skills developed in preparation for professional interaction. End of semester artwork documented digitally.
Prerequisites: ARTS 392.
Fees: Yes.

ARTS 492 Painting Workshop IV3 Credits
Technical refinement and conceptual development emphasized. Refinement of the artist’s imagery. Ability to speak and write about work developed. End of semester artwork documented digitally.
Prerequisites: ARTS 491.
Fees: Yes.

ARTS 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ARTS 496 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
AVIATION TECHNOLOGY
(AVTN)

AVTN 101 Private Pilot Ground School 4 Credits
Fees: Yes.

AVTN 102 Private Pilot Flight 4 Credits
Fees: Yes.

AVTN 105 Aviation Meteorology 4 Credits
Recognition, interpretation and evaluation of atmospheric weather as it relates to and affects aviation.

AVTN 111 Instrument Pilot Ground School 4 Credits
Preparation for the FAA Instrument Rating Knowledge Exam.
Fees: Yes.

AVTN 112 Instrument Pilot Flight 4 Credits
Fees: Yes.

AVTN 140 Aircraft Systems 4 Credits
Introduction to the basic mechanical systems and structural components of aircraft to supplement instruction received in flight training.

AVTN 196 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

AVTN 201 Commercial Pilot Ground School 2 Credits
Fees: Yes.

AVTN 202 Commercial Pilot Flight I 4 Credits
Fees: Yes.

AVTN 203 Commercial Pilot Flight II 3 Credits
Preparation in flight training for the Commercial Pilot, Airplane Single Engine, Land FAA Practical Test, completing requirements for the Commercial Pilot Certificate.
Fees: Yes.

AVTN 205 Mountain Flying Ground School 1 Credit
Preparation of the unique aspects of flying in mountainous terrain and the additional knowledge and proficiency necessary for safe and efficient operation in mountain and high altitude terrain.
Fees: Yes.

AVTN 206 Crew Resource Management 1 Credit
Comprehensive classroom instruction coupled with Line Oriented Flight Training (LOFT) in a Flight Training Device. Covers the knowledge, skills, and attitudes necessary to enhance safety and operate effectively as a member of an airplane/helicopter crew.

AVTN 207 Multi-Engine Ground School 1 Credit
Preparation for the FAA Practical Test for Private or Commercial Pilot, Airplane Multi-Engine Land.
Fees: Yes.

AVTN 208 Multi-Engine Flight 1 Credit
Preparation in flight training for the Airplane, Multi-Engine Rating and completing requirements for this rating.

AVTN 211 Fundamentals of Instruction 2 Credits
Preparation for the FAA Fundamentals of Instructing Knowledge Exam.

AVTN 212 Flight Instructor Ground School 2 Credits
Preparation for the FAA Flight Instructor Airplane Knowledge Exam.
Fees: Yes.

AVTN 213 Flight Instructor Flight 1 Credit
Fees: Yes.

AVTN 218 ATC Procedures 4 Credits
Preparation of IFR operations in the Air Traffic Control System, including: general procedures, terminal and IFR procedures, radar and non-radar environments, enroute procedures, and special and emergency procedures.

AVTN 296 Topics: 1-3 Credits
Course may be taken 5 times for credit.
Course may be taken multiple times up to maximum of 15 credit hours.
BIOLOGY (BIOL)

BIOL 101 General Human Biology-GTSC13 Credits
Scientific method, ecology, pollution, drugs, reproduction, cancer, heart disease, nutrition, and selected body structure and function relationships. Labs will include required field trips. Can be taken for graduation or essential learning credit by biology majors who have completed no more than 10 hours in BIOL.
Corequisites: BIOL 101L.
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
BIOL 101L General Human Biology Laboratory-GTSC11 Credit
Lab component required for BIOL 101.
Corequisites: BIOL 101.
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
BIOL 105 Attributes of Living Systems-GTSC13 Credits
Cell structure and function, cell energetics, biochemistry and genetics. High school chemistry recommended.
Corequisites: BIOL 105L.
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
BIOL 105L Attributes of Living Systems Laboratory-GTSC11 Credit
Lab component required for BIOL 105.
Corequisites: BIOL 105.
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
BIOL 106 Attributes of Living Systems-Laboratory-GTSC1 Credit
Study of the form and function of several major systems of the human body. For students with an interest in pre-med, nursing, human health, and biology. A background in general biology is recommended. Three lectures and two one and one-half hour laboratories per week.
Corequisites: BIOL 209L.
BIOL 106L Attributes of Living Systems Laboratory-GTSC1 Credit
Lab component required for BIOL 106.
Prerequisites: BIOL 105 or permission of instructor.
Corequisites: BIOL 106.
Fees: Yes.
BIOL 107 Principles of Plant Biology3 Credits
Reproductive biology, anatomy, physiology, phylogeny and ecology of the major groups of plants.
Prerequisites: BIOL 105 or permission of instructor.
Corequisites: BIOL 107L.
BIOL 107L Principles of Plant Biology Laboratory1 Credit
Lab component required for BIOL 107.
Prerequisites: BIOL 105 or permission of instructor.
Corequisites: BIOL 107.
Fees: Yes.
BIOL 108 Diversity of Organisms-GTSC13 Credits
Broadly integrated survey of biological diversity with an emphasis on evolutionary relationships, ecology, and functional anatomical features of major groups.
Corequisites: BIOL 108L.
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
BIOL 108L Diversity of Organisms Laboratory-GTSC11 Credit
Lab component required for BIOL 108.
Corequisites: BIOL 108.
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
BIOL 109 Human Anatomy and Physiology3 Credits
Study of the form and function of several major systems of the human body. For students with an interest in pre-med, nursing, human health, and biology. A background in general biology is recommended. Three lectures and two one and one-half hour laboratories per week.
Corequisites: BIOL 209L.
BIOL 109L Human Anatomy and Physiology Laboratory1 Credit
Lab component required for BIOL 109.
Corequisites: BIOL 209.
Fees: Yes.
BIOL 210 Human Anatomy and Physiology II3 Credits
Continuation of Human Anatomy and Physiology, which covers additional body systems and disease processes. For students with an interest in pre-med, nursing, human health, and biology. Three one-hour lectures and two one and one-half hour laboratories per week.
Prerequisites: BIOL 209 and BIOL 209L.
Corequisites: BIOL 210L.
BIOL 210L Human Anatomy and Physiology II Laboratory1 Credit
Lab component required for BIOL 210.
Prerequisites: BIOL 209 and 209L.
BIOL 211 Ecosystem Biology4 Credits
Ecological studies utilizing the concepts of population biology, energetics, dynamics, distribution, and sociology. Overnight and/or weekend field trips may be required. Four lectures and one three-hour laboratory per week.
Corequisites: BIOL 211L.

BIOL 211L Ecosystem Biology Laboratory1 Credit
Lab component required for BIOL 211.
Corequisites: BIOL 211.
Fees: Yes.

BIOL 217 Forensic Entomology2 Credits
Basic procedure and considerations in using insect evidence in crime scene investigations and the determination of post mortem interval using insects. Two-hour lecture and one two-hour lab per week.
Corequisites: BIOL 217L.

BIOL 217L Forensic Entomology Laboratory1 Credit
Lab component required for BIOL 217.
Corequisites: BIOL 217.
Fees: Yes.

BIOL 241 Pathophysiology4 Credits
Function of the human body with emphasis on interpretation of those functions in relation to disease processes.
Prerequisites: BIOL 209/BIOI 209L or BIOL 341/BIOI 341L.

BIOL 250 Introduction to Microbiology-GTSC13 Credits
Major types of microorganisms with an emphasis on bacteria. Microbial taxonomy, structure, metabolism, genetics, and aspects of infectious disease and the immune host response. Three lecture hours and two two-hour laboratories per week.
Corequisites: BIOL 250L.

BIOL 250L Introduction to Microbiology Laboratory-GTSC11 Credit
Lab component required for BIOL 250.
Corequisites: BIOL 250.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

BIOL 296 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

BIOL 301 Principles of Genetics3 Credits
Principles of genetics at the organismal, cellular, and molecular level dealing with the genetics of prokaryotic and eukaryotic organisms and viruses. Three lectures and one three-hour laboratory per week.
Prerequisites: BIOL 105/BIOI 105L and MATH 113.
Corequisites: BIOL 301L.

BIOL 301L Principles of Genetics Laboratory1 Credit
Lab component required for BIOL 301.
Prerequisites: BIOL 105/BIOI 105L and MATH 113; BIOL 302 recommended.
Corequisites: BIOL 301L.
Fees: Yes.

BIOL 302 Cellular Biology3 Credits
Form, function, and bioenergetics of the cell.
Prerequisites: BIOL 301/BIOI 301L and CHEM 132/CHEM 132L.

BIOL 301/BIOL 301L and CHEM 132/CHEM 132L.

BIOL 301L Principles of Genetics Laboratory1 Credit
Lab component required for BIOL 301.
Corequisites: BIOL 301.

BIOL 310 Developmental Biology3 Credits
Embryonic growth and development of plants and animals. Also errors in normal development, cancer, aging, and related topics. Three lectures and two two-hour laboratories per week.
Prerequisites: BIOL 301/BIOL 301L or permission of instructor.
Corequisites: BIOL 310L.

BIOL 310L Developmental Biology Laboratory2 Credits
Lab component required for BIOL 310.
Prerequisites: BIOL 301/BIOL 301L or permission of instructor.
Corequisites: BIOL 310.
Fees: Yes.

BIOL 315 Epidemiology3 Credits
Characteristic patterns of communicable disease occurrence as related to individuals, geographic location, and time; factors affecting disease occurrence, the nature of vital statistics, sampling procedures, and study design. An independent project is required.

BIOL 316 Animal Behavior3 Credits
Mechanisms and evolution of animal behavior. Three lectures and one two-hour laboratory per week.
Prerequisites: BIOL 106/BIOI 106L or BIOL 209/BIOI 209L.
Corequisites: BIOL 316L.

BIOL 316L Animal Behavior Laboratory1 Credit
Lab component required for BIOL 316.
Prerequisites: BIOL 106/BIOI 106L or BIOL 209/BIOI 209L.
Corequisites: BIOL 316.
Fees: Yes.

BIOL 320 Plant Systematics3 Credits
Systematic botany encompassing principles of classification, nomenclature, and evaluation of current classifications of angiosperms.
Prerequisites: BIOL 105/BIOI 105L, BIOL 107/BIOI 107L or BIOL 108/BIOI 108L, and BIOI 208/BIOI 208L.

BIOL 321 Taxonomy of Grasses2 Credits
A study of the grass family and grass-like plants (sedges and rushes) dealing with the evolution, classification, and identification of these plants. Two lectures and two two-hour laboratories per week.
Prerequisites: BIOL 107/BIOI 107L or BIOL 108/BIOI 108L, or permission of instructor.
Corequisites: BIOL 321L.

BIOL 321L Taxonomy of Grasses Laboratory2 Credits
Lab component required for BIOL 321.
Prerequisites: BIOL 107/BIOI 107L or BIOL 108/BIOI 108L, or permission of instructor.
Corequisites: BIOL 321.
Fees: Yes.

BIOL 322 Plant Identification2 Credits
Identification of the local flora. Basic plant anatomy and morphology. Includes evolutionary relationships of major plant groups as well as environmental, ecological, and historical constraints on plant distribution.
Prerequisites: BIOL 107/BIOI 107L or BIOL 108/BIOI 108L.
Corequisites: BIOL 322L.

BIOL 322L Plant Identification Laboratory2 Credits
Lab component required for BIOL 322.
Prerequisites: BIOL 107/BIOI 107L or BIOL 108/BIOI 108L.
Corequisites: BIOL 322.
BIOL 331 Insect Biology3 Credits
Insect taxonomy, evolution, ecology, and physiology. Insect collection required. Three lectures and two two-hour laboratories per week.
Prerequisites: BIOL 106/BIOL 106L or BIOL 108/BIOL 108L.
Corequisites: BIOL 331L.

BIOL 331L Insect Biology Laboratory2 Credits
Lab component required for BIOL 331.
Prerequisites: BIOL 106/BIOL 106L or BIOL 108/BIOL 108L.
Corequisites: BIOL 331.

Fees: Yes.

BIOL 333 Marine Biology3 Credits
Study of the principles that govern biological systems in the ocean with an emphasis on the natural history, ecology, and evolution of marine organisms. Three one-hour lectures per week.
Prerequisites: BIOL 106/BIOL 106L and BIOL 107/BIOL 107L, or BIOL 108/BIOL 108L, or permission of instructor.

BIOL 335 Invertebrate Zoology3 Credits
Study of the evolution, morphology, life history, ecology and classification of invertebrates with a focus on non-insect invertebrates. Three one-hour lectures and one two-hour lab per week.
Prerequisites: BIOL 106/BIOL 106L, or permission of instructor.
Corequisites: BIOL 335L.

BIOL 335L Invertebrate Zoology Laboratory1 Credit
Lab component required for BIOL 335.
Prerequisites: BIOL 106/BIOL 106L, or permission of instructor.
Corequisites: BIOL 335.

Fees: Yes.

BIOL 336 Fish Biology3 Credits
Study of the anatomy and physiology of fish. Topics include ecology, fish diseases, and marine and freshwater fishery techniques. Field trips may be offered.
Prerequisites: BIOL 106/BIOL 106L or permission of instructor.
Corequisites: BIOL 336L.

BIOL 336L Fish Biology Laboratory1 Credit
Lab component required for BIOL 336.
Prerequisites: BIOL 106/BIOL 106L or permission of instructor.
Corequisites: BIOL 336.

Fees: Yes.

BIOL 341 General Physiology3 Credits
Diversity of form and function across all vertebrates, including humans. Emphasizes fundamental physiological processes, integration among systems, and addresses physiological mechanisms adapted to environmental challenges. Three lectures and one two-hour laboratory per week.
Prerequisites: BIOL 105/BIOL 105L or BIOL 209/BIOL 209L and junior or senior standing.
Corequisites: BIOL 341.

BIOL 341L General Physiology Laboratory1 Credit
Lab component required for BIOL 341.
Prerequisites: BIOL 105/BIOL 105L or BIOL 209/BIOL 209L and junior or senior standing.
Corequisites: BIOL 341.

Fees: Yes.

BIOL 343 Immunology3 Credits
Immune system of animals with emphasis on human immune response. Includes the immune organs and both cellular and humoral responses. An independent research project is required.
Prerequisites: BIOL 302, or BIOL 301 and BIOL 301L.

BIOL 344 Forensic Molecular Biology3 Credits
Molecular biology and genetics used in forensic investigations, including the genetic basis of diversity and DNA typing techniques.
Prerequisites: BIOL 105/BIOL 105L and CHEM 131/CHEM 131L.
Corequisites: BIOL 344L.

BIOL 344L Forensic Molecular Biology Laboratory1 Credit
Lab component required for BIOL 344.
Prerequisites: BIOL 105/BIOL 105L and CHEM 131/CHM 131L.
Corequisites: BIOL 344.

Fees: Yes.

BIOL 350 Microbiology3 Credits
Growth, morphology, metabolism, genetics and ecology of microorganisms. Includes aspects of industrial microbiology, clinical microbiology, and genetic engineering. Three lectures and one three-hour laboratory per week.
Prerequisites: BIOL 105/BIOL 105L, and CHEM 121/CHM 121L or CHEM 131/CHM 131L.
Corequisites: BIOL 350L.

BIOL 350L Microbiology Laboratory1 Credit
Lab component required for BIOL 350.
Prerequisites: BIOL 105/BIOL 105L, and CHEM 121/CHM 121L or CHEM 131/CHM 131L.
Corequisites: BIOL 350.

Fees: Yes.

BIOL 371L Laboratory Investigations in Cellular and Molecular Biology3 Credits
Laboratory exercises and experiments that highlight important topics in cellular and molecular biology. The mechanics of laboratory science is introduced with an emphasis on modern techniques, hypothesis development, data analysis and scientific communication. Two three-hour laboratories per week.
Prerequisites: BIOL 301/BIOL 301L and CHEM 132/CHM 132L or permission of instructor.

Fees: Yes.

BIOL 385 Nature and Philosophy of Science3 Credits
Central concepts on the nature of scientific knowledge including philosophical tenets that distinguish science from technology as well as distinguish science from pseudoscience. May not be used in the Additional Biology Courses categories for the Biology Concentration.

BIOL 387 Structured Research1-3 Credits
Independent research beyond the scope of the published curriculum. Designed for advanced sophomore and junior level students to participate in research activities under the direction of a specific faculty member. May be repeated for up to 6 credit hours.
Prerequisites: Sophomore or junior standing, or permission of instructor. Course may be taken multiple times up to maximum of 6 credit hours.
Fees: Yes.

BIOL 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

BIOL 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

BIOL 403 Evolution3 Credits
Organismal and molecular evolution emphasizing its importance as the unifying theory in biology. Evolution of natural selection on genetic structure of populations.
Prerequisites: BIOL 301/BIOL 301L, with BIOL 208/BIOL 208L strongly recommended.
BIOL 405 Advanced Ecological Methods3 Credits
Examination of quantitative methods in population, community, and ecosystems ecology. Extensive writing, computer work and field trips are required. Three lectures and two two-hour laboratories per week.
Prerequisites: BIOL 105/BIOL 105L; and BIOL 106/BIOL 106L and BIOL 107/BIOL 107L, or BIOL 108/BIOL 108L; STAT 311 is recommended.
Corequisites: BIOL 405L.
BIOL 405L Advanced Ecological Methods Laboratory2 Credits
Lab component required for BIOL 405.
Prerequisites: BIOL 105/BIOL 105L; and BIOL 106/BIOL 106L and BIOL 107/BIOL 107L, or BIOL 108/BIOL 108L; STAT 311 is recommended.
Corequisites: BIOL 405.

Fees: Yes.

BIOL 406 Plant-Animal Interactions3 Credits
Ecological, evolutionary, and applied approaches to the studies of herbivory, ant-plant interactions, pollination, and seed dispersal.
Prerequisites: BIOL 105/BIOL 105L; BIOL 106/BIOL 106L; BIOL 107/BIOL 107L, or BIOL 108/BIOL 108L; and BIOL 208/BIOL 208L; BIOL 331/BIOL 331L is recommended.

BIOL 407 Tropical Field Biology3-5 Credits
Field research techniques, ecology and natural history in lowland and montane tropical rainforests of Ecuador. Ten nine-hour labs and fifteen two-hour lectures conducted at biological field stations in Ecuador.
Prerequisites: BIOL 105/BIOL 105L; and BIOL 106/BIOL 106L and BIOL 107/BIOL 107L, or BIOL 108/BIOL 108L; and BIOL 208/BIOL 208L; BIOL 331/BIOL 331L is recommended.

BIOL 408 Desert Ecology3 Credits
Overview of desert ecology in the surrounding area and in the United States. Covers ecology of U.S. deserts including specific plant, animal, and human adaptations. Discussion on world deserts. Field trips may be offered.
Prerequisites: BIOL 208, BIOL 208L, and upper division standing or permission of instructor.

BIOL 409 Gross and Developmental Human Anatomy2 Credits
Gross anatomy, embryology, radiological and cross-sectional anatomy of the human body via lectures, demonstrations, and dissections of the human cadaver. Emphasis on thorax, abdomen, and extremities. Two lectures and two 2-hour laboratories per week.
Prerequisites: BIOL 209/BIOL 209L, or permission of instructor.
Corequisites: BIOL 409L.

BIOL 409L Gross and Developmental Human Anatomy Laboratory2 Credits
Lab component required for BIOL 409.
Prerequisites: BIOL 209/BIOL 209L, or permission of instructor.
Corequisites: BIOL 409.

Fees: Yes.

BIOL 410 Human Osteology3 Credits
Study of the human skeleton, including osteology and bone detail, biological variation, animal skeletal comparisons, pathology, forensics, and proper handling of human skeletal material. Laboratory emphasizes analysis and identification of human skeletal material. Three lectures and one two-hour laboratory per week.
Prerequisites: BIOL 209 and BIOL 209L.
Corequisites: BIOL 410L.

BIOL 410L Human Osteology Laboratory1 Credit
Lab component required for BIOL 410.
Prerequisites: BIOL 209 and BIOL 209L.
Corequisites: BIOL 410.

Fees: Yes.

BIOL 411 Mammalogy3 Credits
Classification, life histories, and ecology of mammals. Oversight and/or weekend field trips may be required. Two lectures and one two-hour laboratory or three-hour field trip per week.
Prerequisites: Upper division standing or permission of instructor.
Corequisites: BIOL 411L.

BIOL 411L Mammalogy Laboratory1 Credit
Lab component required for BIOL 411.
Prerequisites: Upper division standing or permission of instructor.
Corequisites: BIOL 411.

Fees: Yes.

BIOL 412 Ornithology3 Credits
Classification and life history of birds, including field identification. Oversight and/or weekend field trips may be required. Three lectures and one two-hour laboratory or three-hour field trip per week.
Prerequisites: BIOL 208, BIOL 208L, and upper division standing or permission of instructor.
Corequisites: BIOL 412L.

BIOL 412L Ornithology Laboratory1 Credit
Lab component required for BIOL 412.
Prerequisites: BIOL 208, BIOL 208L, and upper division standing or permission of instructor.
Corequisites: BIOL 412.

Fees: Yes.

BIOL 413 Herpetology3 Credits
Classification, evolution, morphology and ecology of amphibians and reptiles. Oversight or weekend field trips may be required. Three lectures and one two-hour laboratory per week.
Prerequisites: BIOL 208, BIOL 208L, and upper division standing or permission of instructor.
Corequisites: BIOL 413L.

BIOL 413L Herpetology Laboratory1 Credit
Lab component required for BIOL 413.
Prerequisites: BIOL 208, BIOL 208L, and upper division standing or permission of instructor.
Corequisites: BIOL 413.

Fees: Yes.

BIOL 414 Freshwater Ecology3 Credits
Classification, life history, and ecology of aquatic animals. Oversight and/or weekend field trips may be required. Three lectures and one two-hour laboratory or three-hour field trip per week.
Prerequisites: BIOL 208, BIOL 208L, and upper division standing or permission of instructor.
Corequisites: BIOL 414L.

BIOL 414L Freshwater Ecology Laboratory1 Credit
Lab component required for BIOL 414.
Prerequisites: BIOL 208, BIOL 208L, and upper division standing or permission of instructor.
Corequisites: BIOL 414.

Fees: Yes.

BIOL 415 Tropical Ecosystems2 Credits
Ecology of rainforests, grasslands, and desert ecosystems of the world.
Prerequisites: BIOL 105/BIOL 105L, and BIOL 106/BIOL 106L or BIOL 107/BIOL 107L, or BIOL 108/BIOL 108L, and BIOL 208/BIOL 208L, or permission of instructor.
BIOL 418 Wildlife Management3 Credits
Examination of wildlife biology and management. Topics covered include managing habitat, mammals, birds, fish, and other small animals. Three one-hour lectures per week.
Prerequisites: BIOL 105/BIOL 105L and BIOL 106/BIOL 106L or BIOL 107/BIOL 107L, and BIOL 208/BIOL 208L or permission of instructor.
Corequisites: BIOL 418L.

BIOL 418L Wildlife Field Techniques2 Credits
Lab component required for BIOL 418.
Prerequisites: BIOL 105/BIOL 105L and BIOL 106/BIOL 106L or BIOL 107/BIOL 107L, and BIOL 208/BIOL 208L or permission of instructor.
Corequisites: BIOL 418
Fees: Yes.

BIOL 421 Plant Physiology3 Credits
Plant-water relationships, plant mineral nutrition, photosynthesis, plant growth and development at the molecular and cellular level to account for plant growth at the organismal level. Three lectures and one two-hour laboratory per week.
Prerequisites: BIOL 107/BIOL 107L, CHEM 121/CHEM 121L or CHEM 131/CHEM 131L, or permission of instructor.
Corequisites: BIOL 421L.

BIOL 421L Plant Physiology Laboratory1 Credit
Lab component required for BIOL 421.
Prerequisites: BIOL 107/BIOL 107L, CHEM 121/CHEM 121L or CHEM 131/CHEM 131L, or permission of instructor.
Corequisites: BIOL 421.
Fees: Yes.

BIOL 423 Plant Anatomy3 Credits
Form, variability, and structure of the tissues comprising the body of the higher plant. Three lectures and two two-hour laboratories per week.
Prerequisites: BIOL 107 and BIOL 107L or permission of instructor.
Corequisites: BIOL 423L.

BIOL 423L Plant Anatomy Laboratory2 Credits
Lab component required for BIOL 423.
Prerequisites: BIOL 107 and BIOL 107L or permission of instructor.
Corequisites: BIOL 423.
Fees: Yes.

BIOL 425 Molecular Genetics3 Credits
Nature and expression of genetic information at the molecular level in prokaryotic and eukaryotic organisms.
Prerequisites: BIOL 301 and BIOL 301L.

BIOL 431 Animal Parasitology3 Credits
Common and important parasites of domestic animals and man. Ecology, epidemiology, diagnosis, and control are discussed with examples from the Protozoa, Trematoda, Cestoda, Nematoda, and Arthropoda. An independent research project is required. Three lectures and one two-hour laboratory per week.
Corequisites: BIOL 431L.

BIOL 431L Animal Parasitology Laboratory1 Credit
Lab component required for BIOL 431.
Corequisites: BIOL 431.
Fees: Yes.

BIOL 433 Marine Invertebrate Communities3 Credits
Techniques of collection and laboratory examination of marine invertebrates from intertidal and subtidal habitats. Seven eight-hour labs and seven two-hour lectures will be conducted at a marine biological research station.
Prerequisites: BIOL 106, BIOL 106L, or permission of instructor.

BIOL 441 Endocrinology3 Credits
Anatomy and physiology of the endocrine system of vertebrates.
Prerequisites: BIOL 105, BIOL 105L, CHEM 132, CHEM 132L, and junior or senior standing.

BIOL 442 Pharmacology3 Credits
Principles underlying absorption, distribution, metabolism, and excretion of drugs with emphasis on mechanisms of action and physiological responses.
Prerequisites: BIOL 209 and BIOL 209L, one year of chemistry, and junior or senior standing.

BIOL 450 Mycology3 Credits
Fungi, with emphasis on comparative morphology and development, classification, physiology, genetics, and ecological relationships. Importance of fungi in industry, agriculture, and medicine. Three lectures and two two-hour laboratories per week.
Prerequisites: BIOL 107/BIOL 107L or permission of instructor.
Corequisites: BIOL 450L.

BIOL 450L Mycology Laboratory2 Credits
Lab component required for BIOL 450.
Prerequisites: BIOL 107/BIOL 107L or permission of instructor.
Corequisites: BIOL 450.
Fees: Yes.

BIOL 482 Senior Research2 Credits
Designed to introduce students to appropriate procedures for conducting literature reviews, designing experiments, collecting and analyzing data, and preparing written and oral presentations of such experiments. Two lectures per week or equivalent.
Prerequisites: Senior standing, 2.80 GPA, and permission of instructor.

BIOL 483 Senior Thesis2 Credits
Students prepare an in-depth thesis elaborating on a major conceptual issue(s) in biology. The purpose of the thesis is to ascertain the student's ability to collect a broad array of information and integrate this into a logical conceptual framework that traverses organizational levels of living systems. The thesis topic must be approved by the instructor.
Prerequisites: Senior standing and permission of instructor.

BIOL 487 Advanced Research1-3 Credits
Provides students with an individualized research experience on a topic approved and directed by a specific faculty member. A detailed report in the form of a scientific journal article must be provided to the instructor. May be repeated for up to 6 credit hours.
Prerequisites: BIOL 482 or permission of instructor; BIOL 387 is highly recommended.
Course may be taken multiple times up to maximum of 6 credit hours.
Fees: Yes.

BIOL 493 Lab Teaching Practicum1 Credit
Assist in laboratory teaching to support instruction and enhance student learning. May be repeated for up to 3 hours.
Prerequisites: Junior or senior standing or permission of instructor. Must have taken the course to be supported or have sufficient experience in other related courses.
Course may be taken 4 times for credit.

BIOL 494 Seminar1 Credit
Current problems, topics, and research procedures in biological sciences and medicine. Topics announced each semester.
Prerequisites: Sophomore standing and permission of instructor.
Course may be taken 5 times for credit.

BIOL 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.
BIOL 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

BIOL 499 Internship 1-10 Credits
Work experience obtained on a job where assignments are primarily biological projects. The amount of credit awarded is determined by the school based on the nature of the assignment.
Prerequisites: Biology major, senior standing with either a 2.80 GPA in major courses, completion of BIOL 482, or consent of instructor.
Course may be taken multiple times up to maximum of 15 credit hours.

BIOL 500 Advanced Human Anatomy 3 Credits
Introduction to advanced concepts in gross anatomy, anatomical relationships, and spatial orientation of normal anatomic structures and common anatomic variations. Examines the forms and function of the human body and the relationship of surface and internal structures from different bodily systems.
Prerequisites: Graduate student status.
Corequisites: BIOL 500L.
Terms Typically Offered: Spring.

BIOL 500L Advanced Human Anatomy Laboratory 1 Credit
Laboratory experience accompanying BIOL 500.
Prerequisites: Graduate student status.
Corequisites: BIOL 500.
Terms Typically Offered: Spring.

BIOL 507 Tropical Field Biology 5 Credits
Field research techniques, ecology and natural history in lowland and montane tropical rainforests of Ecuador. Ten nine-hour labs and fifteen two-hour lectures conducted at biological field stations in Ecuador.
Prerequisites: Undergraduate degree in biology or undergraduate degree in another field with primary or secondary teaching experience in science, and permission of instructor.

BIOL 533 Marine Invertebrate Communities 3 Credits
Techniques of collection and laboratory examination of marine invertebrates from intertidal and subtidal habitats. Design and execution of a research project and a written paper are required. Seven eight-hour labs and seven two-hour lectures will be conducted at a marine biological research station.
Prerequisites: Undergraduate degree in biology or a related field and permission of instructor.

BIOL 596 Topics 1-5 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
BUSINESS (BUGB)

BUGB 101 Introduction to Business3 Credits
American business system operations in the economy, business functions, and interrelations between the businessman and his environment.
Prerequisites: Can be taken for credit only by students who have completed fewer than 15 credit hours of BUGB, ACCT, HMGT, MANG, MARK, OFAD, CISB, or FINA courses.

BUGB 101A Introduction to Business: Part 1 of 31 Credit
Introduction to management, supervision, motivation, supervision and the processes of recruiting personnel in the workplace.

BUGB 101B Introduction to Business: Part 2 of 31 Credit
Introduction to marketing, pricing, quality customer service, social responsibility and ethics in the workplace.

BUGB 101C Introduction to Business: Part 3 of 31 Credit
Introduction to financial statements, financial management, and budgeting in the workplace.

BUGB 105 Freshman Business Seminar3 Credits
Overview of the Colorado Mesa University Business Department for prospective majors. Operational strategies and teamwork are developed via cases and projects. Students will gain exposure to all functional business areas through readings, discussions, and presentations. Cannot be taken for credit by students who have completed more than 15 credit hours of business courses.

 BUGB 141 Business Mathematics3 Credits
Fundamental review of whole numbers, decimals, and fractions. Emphasis is placed on percentage applications to solving various business problems in the areas of buying and selling merchandise, inventory computations, interest computations on notes and savings, consumer credit and installment computation, home mortgage loans, and business depreciation computations.

BUGB 211 Business Communications3 Credits
Development of a non-defensive, supportive, communication system effectively applied to interpersonal and written transactions within the business organization.
Prerequisites: ENGL 111.

BUGB 211A Business Communications: Part 1 of 31 Credit
Introduction to business communications, planning and writing messages and reports.

BUGB 211B Business Communications: Part 2 of 31 Credit
Introduction to effective communications in business, including presentations and routine, negative and persuasive messages.

BUGB 211C Business Communications: Part 3 of 31 Credit
Introduction to the roles of personal styles, cultures and teams in business communications.

BUGB 221 Insurance3 Credits
Common types of protection offered by insurance, including fire, theft, comprehensive, life, automobile, accident, and health. Emphasis on application of insurance to individuals and small business firms.

BUGB 231 Survey of Business Law3 Credits
Application of law as it applies to individuals and businesses including foundations of the American legal system, legal entities and government regulations, property law, contracts and sales, negotiable instruments, agency and employment law, torts, labor law, international business law and the social environment of business. No credit allowed for degrees from Department of Business if credit already established in BUGB 351.

BUGB 241 Income Tax3 Credits
Personal income tax, including filing out personal tax returns, exemptions, determining taxable income, adjustments to gross income, itemized deductions, rental income, depreciation, capital gains and losses. Not for students with an accounting emphasis.

BUGB 249 Personal Finance: The Business of Life3 Credits
Development of financial and economic literacy to improve personal decision making in the areas of: personal budgeting; developing a personal financial plan including consumer credit, taxes and purchasing a home; money and interest rates; the market economy; free enterprise and competition; and the consequences of externalities, public goods and increasing costs in the service sector.

BUGB 293 Cooperative Education3-9 Credits
Practical workplace experience under the joint supervision of the employer and the internship coordinator. Designed for non-business majors working in the business environment. Course may be taken multiple times up to maximum of 15 credit hours.

BUGB 349 Legal Environment of Business3 Credits
Legal framework of business including foundations of the American legal system, anti-trust law, property law, contracts and sales, negotiable instruments, agency relationships, torts, labor law, international business law and the social environment of business.
Prerequisites: Junior or senior standing or permission of instructor.

BUGB 351 Business Law I3 Credits
Law and legal reasoning. Court systems, constitutional law, business ethics, torts, criminal law, intellectual property, privacy, internet and cyber law. Contracts, sales, product liability, and agency and employment law.

BUGB 352 Business Law II3 Credits
Business entities (formation, financing and regulation). Securities law and corporate governance, negotiable instruments; creditors’ rights and bankruptcy; administrative, consumer and environmental law. Real and personal property; insurance; wills and trusts, and professional liability.
Prerequisites: BUGB 351 or permission of instructor.

BUGB 393 Cooperative Education3-9 Credits
Cooperative Education internships provide non-business students an opportunity to put their education to practical use in the workplace under the joint supervision of an organization-based supervisor and a Colorado Mesa University faculty coordinator. Written consent of coordinator required prior to registration. Course may be taken multiple times up to maximum of 15 credit hours.

BUGB 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

BUGB 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

BUGB 401 International Business3 Credits
Current international topics in the disciplines of finance, management, and marketing. Concepts, analytical tools, and models are introduced to help explain the diversity and complexity of the international business environment.
Prerequisites: Senior standing.
**BUGB 405 Big Questions in Business** 3 Credits
Application of the requisite business skill of critical thinking as it pertains to major issues in business.
**Prerequisites:** Senior standing.

**BUGB 435 Emerging Markets** 3 Credits
**Prerequisites:** Business Foundation Courses.

**BUGB 440 Business Ethics** 3 Credits
Examination of the nature and role of ethics in the business environment.

**BUGB 493 Cooperative Education** 3-12 Credits
See description of BUGB 393.
Course may be taken multiple times up to maximum of 15 credit hours.

**BUGB 495 Independent Study** 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

**BUGB 496 Topics** 1-6 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

**BUGB 500 Advanced Business Law and Ethics** 3 Credits
Emphasizes the regulations, statutes and cases that impact business on a daily basis. Topics covered include contract law, negotiations, labor law, the Uniform Commercial Code, and the law of business organizations to include limited liability companies.

**BUGB 510 Global Business** 3 Credits
Explores international management concepts and procedures and their importance to modern managers. Operating in multi-national, multi-cultural managerial environment, the modern manager must understand business and management from a global perspective. Emphasis is placed on comparing and contrasting management practices in different nation-states and how this might affect decisions concerning risk, investment, human resources, finances, operations, manufacturing and production in a multi-national business.

**BUGB 520 Seminar in Current Business Topics** 1-6 Credits
Develops topics of current interest in the business world. Areas included are effective communication strategies, ethics, and the global dimension of business.
Course may be taken 4 times for credit.

**BUGB 530 Research Design** 3 Credits
Examines the design of research projects. Topics will include selection of the problem, secondary data, historical research, descriptive research, experimental research, the tools of research, and interpretation of data.
**Prerequisites:** Permission of instructor and permission of MBA Director.

**BUGB 590 MBA Thesis I** 3 Credits
**Prerequisites:** Completion of approved research design and methods course and permission of MBA Director.

**BUGB 592 MBA Thesis II** 3 Credits

**BUGB 595 Research Practicum** 3 Credits
Application of classroom theory and research methods to on-the-job experiences.
**Prerequisites:** BUGB 530 and permission of the MBA Director.
Course may be taken multiple times up to maximum of 6 credit hours.
CHEMISTRY (CHEM)

CHEM 100 Chemistry and Society-GTSC23 Credits
Introduction to selected topics in chemistry with particular attention to chemistry in society. Minimal use of elementary mathematics is required.
Essential Learning Categories: Natural Sciences

CHEM 121 Principles of Chemistry-GTSC14 Credits
Introduction to fundamental principles of chemistry. Designed for students planning a major in science as well as students with a non-science major. Topics include atomic structure, bonding, periodic table, gas laws, mass relationships, solution theory, oxidation-reduction, electrochemistry, and ionic equilibrium. Four lectures and on three-hour lab per week.
Prerequisites: Mastery of high school algebra.
Corequisites: CHEM 121L
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
CHEM 121L Principles of Chemistry Laboratory-GTSC11 Credit
Lab component required for CHEM 121.
Prerequisites: Mastery of high school algebra.
Corequisites: CHEM 121
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
CHEM 122 Principles of Organic Chemistry-GTSC14 Credits
Introduction to the chemical and physical properties of selected classes of organic compounds. Four lectures and one three-hour laboratory per week.
Prerequisites: CHEM 121/CHEM 121L or CHEM 131/CHEM 131L or one year of high school chemistry and permission of instructor.
Corequisites: CHEM 122L
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
CHEM 122L Principles of Organic Chemistry Laboratory-GTSC11 Credit
Lab component required for CHEM 122.
Prerequisites: CHEM 121/CHEM 121L or CHEM 131/CHEM 131L or one year of high school chemistry and permission of instructor.
Corequisites: CHEM 122
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
CHEM 131 General Chemistry I-GTSC14 Credits
Fundamental principles of chemistry. Designed for students planning a major in science. Topics include dimensional analysis, atomic and molecular structure, stoichiometry, simple chemical reactions, thermochemistry, and gases. Four lectures and one three-hour laboratory per week.
Prerequisites: One year of high school chemistry, mastery of algebra, and a passing score on the chemistry assessment exam. CHEM 131 and CHEM 131L are prerequisites for CHEM 132 and CHEM 132L.
Corequisites: CHEM 131L
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
CHEM 131L General Chemistry Laboratory I-GTSC11 Credit
Laboratory course to accompany CHEM 131. Designed for students planning a major in science. Basic chemistry laboratory techniques will be introduced. Experimental topics include: basic measurements and significant figures, determining the electronic structure of atoms, chromatography basics, determining empirical formulas, and calorimetry.
Prerequisites: One year of high school chemistry, mastery of algebra, and a passing score on the chemistry assessment exam. CHEM 131 and CHEM 131L are prerequisites for CHEM 132 and CHEM 132L.
Corequisites: CHEM 131.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
CHEM 132 General Chemistry II-GTSC14 Credits
Continuation of the material in CHEM 131. Topics include states of matter, solutions, kinetics, equilibrium, thermodynamics, and electrochemistry.
Prerequisites: CHEM 131/ CHEM 131L or CHEM 151/ CHEM 151L.
Corequisites: CHEM 132L
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
CHEM 132L General Chemistry Laboratory II-GTSC11 Credit
Laboratory course to accompany CHEM 132. Designed for students planning a major in science. Freshman-level chemistry laboratory techniques will continue to be introduced. Experimental topics include: identification of chemical unknowns by qualitative analysis, colligative properties, acid-base titration, reaction kinetics, equilibrium constant determinations, and electrochemistry. Four lectures and one three-hour laboratory per week.
Prerequisites: CHEM 131/ CHEM 131L or CHEM 151/ CHEM 151L.
Corequisites: CHEM 132.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
CHEM 133 Introduction to Environmental Chemistry4 Credits
Application of basic chemistry principles to the environment. Topics include aquatic and atmospheric chemistry, biogeochemical cycling of the elements required for life and structural organic chemistry as it applies to the physical and biological properties of persistent organic pollutants. Four lectures per week.
Prerequisites: CHEM 121 and CHEM 121L.
CHEM 151 Engineering Chemistry 4 Credits
General chemistry for engineering majors. Topics include stoichiometry, thermodynamics, states of matter, acids and bases, oxidation-reduction, equilibrium, and kinetics. Examples and problems chosen to illustrate the application of chemistry to engineering.
**Prerequisites:** MATH 113 or higher or concurrently enrolled in MATH 119, MATH 135, or MATH 151; CHEM 121/CHEM 121L or a passing score on the chemistry placement exam.
**Corequisites:** CHEM 151L.

CHEM 151L Engineering Chemistry Laboratory 1 Credit
Laboratory course to accompany CHEM 151. Freshman-level chemistry laboratory techniques will be introduced. Experimental topics include basic measurement techniques, stoichiometry, chemical reaction observation, titrations, and reaction kinetics.
**Prerequisites:** MATH 113 or concurrently enrolled in MATH 119, MATH 135, or MATH 151; CHEM 121/CHEM 121L or passing score on the chemistry placement exam.
**Corequisites:** CHEM 151.

CHEM 196 Topics 3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CHEM 296 Topics 3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CHEM 300 Environmental Chemistry 4 Credits
Aquatic and atmospheric chemistry. Basic chemical, physical, and biological properties of organic pollutants. Topics include smog formation, stratospheric ozone depletion, greenhouse gases, acid mine waste formation, biogeochemistry, and bioaccumulation of halogenated organics.
**Prerequisites:** CHEM 122/CHEM 122L or CHEM 132/CHEM 132L.

CHEM 301 Analytical Chemistry 3 Credits
Classical and instrumental methods of quantitative chemical analysis. Includes statistical treatment of experimental data, method characterization and validation, equilibrium, titrations, electrochemistry, spectroscopy, mass spectrometry, and chromatography.
**Prerequisites:** CHEM 132 and CHEM 132L.
**Corequisites:** CHEM 301L.

CHEM 301L Analytical Chemistry Laboratory 1 Credit
Lab component required for CHEM 301.
**Prerequisites:** CHEM 132 and CHEM 132L.
**Corequisites:** CHEM 301.

CHEM 311 Organic Chemistry I 4 Credits
This course is the first semester of a two-semester introduction to basic organic chemistry. The nomenclature, structure, properties, and reactions of important classes of organic compounds are examined. The relationship of structure and bonding in organic compounds to reactivity is emphasized. Reactions are examined from mechanistic and synthetic perspectives. Spectroscopic analysis of organic compounds is also introduced.
**Prerequisites:** CHEM 132 and CHEM 132L or permission of instructor.
**Corequisites:** CHEM 312.

CHEM 312 Organic Chemistry II 4 Credits
This course is the second semester of a two-semester introduction to basic organic chemistry. The nomenclature, structure, properties, and reactions of important classes of organic compounds are examined. The relationship of structure and bonding in organic compounds to reactivity is emphasized. Reactions are examined from mechanistic and synthetic perspectives. Spectroscopic analysis of organic compounds is also introduced.
**Prerequisites:** CHEM 132 and CHEM 132L or permission of instructor.
**Corequisites:** CHEM 312.

CHEM 315 Biochemistry 3 Credits
Classical biochemistry concerned with the control of metabolism, the production of energy, the relationship of structure to function, carbohydrates, lipids, proteins, and nucleic acids. Three lectures and one three-hour laboratory per week.
**Prerequisites:** CHEM 312 and CHEM 312L.
**Corequisites:** CHEM 315.

CHEM 315L Biochemistry Laboratory 1 Credit
Lab component required for CHEM 315.
**Prerequisites:** CHEM 312 and CHEM 312L.
**Corequisites:** CHEM 315.

CHEM 316 Biochemistry I 3 Credits
In-depth examination of fundamental biological processes including DNA replication, transcription, and protein synthesis. Skills for comparative genomics, protein visualization and sequence alignment developed.
**Prerequisites:** CHEM 312/CHEM 312L and CHEM 315/CHEM 315L.

CHEM 321 Physical Chemistry 3 Credits
Principles of chemical thermodynamics and kinetics. Includes study of the kinetic theory of matter, first and second laws of thermodynamics, state functions, thermochemistry, entropy, free energy, chemic potential, phase transitions, chemical equilibria, and the rates and mechanisms of chemical reactions.
**Prerequisites:** CHEM 132/CHEM 132L or CHEM 151/CHEM 151L; and MATH 152; and PHYS 111/PHYS 111L or PHYS 131/PHYS 131L.

CHEM 322 Physical Chemistry II 3 Credits
An introduction to the quantum theory of atoms, molecules, and chemical bonding for chemists. Includes principles of quantum mechanics and their application to atomic structure, molecular spectroscopy, symmetry properties, and the determination of molecular structure. Also introduces the principles of statistical mechanics with application to molecules.
**Prerequisites:** CHEM 132/CHEM 132L or CHEM 151/CHEM 151L; and MATH 253 (may be taken concurrently); and PHYS 111/PHYS 111L or PHYS 131/PHYS 131L.

CHEM 341 Advanced Laboratory I 2 Credits
Experiments from analytical, inorganic, organic, physical, and biological chemistry designed to show the application of theory to chemical problems. In addition to a list of possible core experiments, each student chooses other experiments according to individual interests. Two three-hour laboratories per week.
**Prerequisites:** CHEM 301/CHEM 301L; CHEM 312/CHEM 312L; and CHEM 321.
**Corequisites:** CHEM 442.
CHEM 351 Inorganic Chemistry I 3 Credits
Study of periodic trends and bonding throughout the periodic table. Includes periodic properties, advanced electron-dot diagrams, VSEPR, symmetry, group theory, molecular orbital diagrams, electron counting, and basic nomenclature.
Prerequisites: CHEM 312 (may be taken concurrently).

CHEM 352 Inorganic Chemistry II 3 Credits
Application of periodic trends and high level bonding concepts to main group, solid state, organometallic, and advanced coordination chemistries. Includes acid-base chemistry, donor-acceptor chemistry, crystalline solids, ligand field stabilization energy, Jahn-Teller Effects, pi-bonding ligands, reaction pathways at transition metal centers, and catalysts.
Prerequisites: CHEM 351.

CHEM 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

CHEM 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CHEM 397 Structured Research 1-3 Credits
Chemical research guided by a faculty member. Sophomore through senior levels. May be repeated for up to 4 credit hours.
Prerequisites: Permission of instructor.
Course may be taken multiple times up to maximum of 4 credit hours.

CHEM 421 Advanced Organic Chemistry I 3 Credits
Selected topics in organic chemistry are discussed in detail.
Prerequisites: CHEM 312 and CHEM 322.

CHEM 422 Advanced Organic Chemistry II 3 Credits
Similar in content to CHEM 421, but without overlap in topics. CHEM 421 is not a prerequisite for CHEM 422.
Prerequisites: CHEM 312 and CHEM 322.

CHEM 431 Instrumental Analysis 3 Credits
Modern instrumental methods of analysis. Topics include signals and noise, atomic spectroscopy, molecular spectroscopy, electroanalytical chemistry and chromatographic separation methods. Three lectures and one 3-hour laboratory per week.
Prerequisites: CHEM 301/CHEM 301L.
Corequisites: CHEM 431 L.

CHEM 431L Instrumental Analysis Laboratory 1 Credit
Lab component required for CHEM 431.
Prerequisites: CHEM 301/CHEM 301L.
Corequisites: CHEM 431.

CHEM 442 Communicating in the World of Chemistry 1 Credit
Study and application of communication skills necessary for careers in chemistry-related fields. Includes laboratory notebooks, chemical publications, cover letters, resumes, and formal oral presentations.
Corequisites: CHEM 341.

CHEM 487 Formal Research 1-3 Credits
Chemical research guided by a faculty member. Results presented as a formal scientific paper in a format suitable for publication. Topics include laboratory notebooks, independent research, and formal reporting of research. May be repeated for up to 4 credit hours.
Course may be taken multiple times up to maximum of 4 credit hours.

CHEM 494 Seminar 1 Credit
Student, faculty, and other speakers present a variety of topics in chemistry and related fields.
Prerequisites: Chemistry major with senior standing or permission of instructor.

CHEM 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

CHEM 496 Topics 3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CHEM 497 Structured Research 1-3 Credits
Chemical research guided by a faculty member. Senior level. May be repeated for up to 4 credit hours.
Prerequisites: Permission of instructor.
Course may be taken multiple times up to maximum of 4 credit hours.

CHEM 596 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
CIVIL ENGINEERING (CIVE)

CIVE 127 Engineering Drawing for Civil Engineering 3 Credits
Exploration of linetypes, symbols, and drawing and dimensioning standards by generating drawings using drafting instruments and computer-aided-drafting (CAD). Drawings start with basic sketching on the board and continue through 3-D solid modeling on CAD. Print reading includes interpretation of site, foundation, floor, and roof plans, as well as elevations and sections.

CIVE 212 Introduction to Geomatics 3 Credits
Introduction to basic linear, angular, area, and volume field measurements common to civil engineering endeavors with application of GPS and GIS technology.
Prerequisites: MATH 151 or MATH 135.

CIVE 313 Theoretical Fluid Mechanics 3 Credits
Basic principles of fluid mechanics. Covers fluid properties, hydrostatics, fluid flow concepts, including continuity, energy, momentum, dimensional analysis and similitude, and flow in closed conduits.
Prerequisites: ENGR 261.

CIVE 397 Structured Research 1-3 Credits
COMPUTER AIDED DRAFTING (CADT)

CADT 101 Introduction to Computers 1 Credit
Introduction to hardware and software including operating systems, word processing, spreadsheets, desktop publishing and presentation software.

CADT 105 Print Reading - Residential, Commercial, Industrial 3 Credits
Reading and interpreting blueprints for residential, commercial, and industrial construction, including site plans. How to do a project take-off and project site layout.

CADT 106 Computer Aided Design 3 Credits
Basic principles of computer aided design through the development of practical drafting problems using a computer. One one-hour lecture and two one and one-half laboratories per week.
Corequisites: CADT 105 and CADT 106.

CADT 107 Advanced Computer Aided Design 3 Credits
Advanced work in computer aided drafting principles including 2-D, 3-D, shading, etc. One one-hour lecture and two one and one-half hour laboratories per week.
Prerequisites: CADT 106, or permission of instructor.

CADT 108 CAD - Mechanical 3 Credits
Offers the student basic principles of computer aided drafting through the development of practical drawing problems using CAD software on the computer. One one-hour lecture and two one and one-half laboratories per week.

CADT 109 CAD - Mechanical Advanced 3 Credits
Advanced work in computer aided drafting principles including 2-D and 3-D shading, solid based modeling and parametric modeling. One one-hour lecture and two one and one-half hour laboratories per week.
Prerequisites: CADT 108.

CADT 110 CAD Application 4 Credits
This course offers the student an opportunity to apply skills and knowledge gained in earlier courses. The student will work on computer aided drawings relating to their career field of interest and advice of faculty. Internship or cooperative education may be substituted with approval of advisor. Two one-hour lectures and two one and one-half hour laboratories per week.
Prerequisites: CADT 107 and CADT 109.

CADT 130 CAD - Civil 3 Credits
Civil drafting will explore the aspects of current day mapping and topography, instruments, conventions and practices, contours, traverses, profiles, surveying, and photogrammetry through CAD drawings. Students will be introduced to GIS, graphical interface systems. One one-hour lecture and two one and one-half hour laboratories per week.
Prerequisites: CADT 107 or CADT 109.

CADT 135 CAD Civil II 3 Credits
Exploration of advanced aspects of current day mapping and topography. An in-depth instruction on road plan and profiles, cut and fill techniques and further instruction using skills from CADT 130.
Prerequisites: CADT 130.

CADT 140 CAD - Architectural Theory 2 Credits
Architectural theory will introduce the student to three major areas of architecture: basic structures and their design, building codes and career opportunities.
Corequisites: CADT 141 and CADT 142.

CADT 141 Structural Materials 3 Credits
This course will identify the properties and applications of the materials of industry. Codes, standards and testing will be emphasized in the fields of architecture. There will be an introduction to mechanical, electrical, plumbing and systems requirement.
Corequisites: CADT 140 and CADT 142.

CADT 142 CAD - Residential Architecture 3 Credits
Residential Architectural CAD will provide the student with a realistic residential project that will begin with schematic design and take him/her through to construction documents. Construction documents will include: site plan, floor plan, exterior elevations, foundation plan, floor framing plan, roof framing plan, building section, and a variety of construction details. One one-hour lecture and two one and one-half hour laboratories per week.
Prerequisites: CADT 107 or CADT 109.
Corequisites: CADT 140 and CADT 141.

CADT 143 CAD - Commercial Architecture 3 Credits
Commercial Architectural CAD will emphasize the creation of commercial project plans that will begin with schematic design and continue through to construction documents. Construction documents will include site plan, foundation floor slab plan, roof framing plan, building section and a variety of construction details. One one-hour lecture and two one and one-half hour laboratories per week.
Prerequisites: CADT 107, and/or CADT 109, and CADT 140.

CADT 150 Advanced Images - Introduction to Animation 4 Credits
Advanced work in computer aided drafting principles including 3-D renderings and animation techniques. One one-hour lecture and two one and one-half hour laboratories per week.

CADT 195 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

CADT 196 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CADT 210 Project 3 Credits
Exploration of advanced aspects of Computer Aided Design. Selected field project to develop more proficient understanding in 3-dimensional design. Final set of plans approved by and developed with faculty.
Prerequisites: CADT 106, CADT 107, and CADT 108.

CADT 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
COMPUTER INFORMATION SYSTEMS (CISB)

CISB 101 Business Information Technology 3 Credits
Introduction to computing and software, including computing systems in a business environment and applicable software.

CISB 205 Advanced Business Software 3 Credits
Use of electronic spreadsheets and database management software. Lectures, demonstrations, and hands-on projects. Developing customized applications with macros in spreadsheets. Creating tables, reports, forms, and queries to creating appropriate relationships and developing customized database software applications.

CISB 206 Introduction to Business Application Programming 3 Credits
Beginning programming with emphasis on solving problems in the context of business applications.

CISB 210 Fundamentals of Information Systems 3 Credits
Exploration of information systems in a business environment. Use of information systems to improve business processes and organizational goals. Introduction to hardware, software, ethical issues, career opportunities, and organizational uses of information systems.

CISB 241 Introduction to Business Analysis 3 Credits
Introduction to descriptive, predictive and inferential analysis techniques, data interpretation, business research skills, and techniques for analysis and modeling of business problems in the workplace, using appropriate software.
Prerequisites: MATH 113 or higher.

CISB 260 Information System Architecture 3 Credits
Principles and applications of information systems hardware and systems software. Theoretical underpinnings, installation, configuration, and operation emphasized.
Prerequisites: CISB 210.

CISB 295 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

CISB 305 Solving Problems Using Spreadsheets 3 Credits

CISB 306 Solving Problems Using Databases 3 Credits
For students who have minimal background in databases. Assists in understanding the importance of data management in organizations through hands-on experience in solving business problems using relational database management software.

CISB 309 Enterprise Systems 3 Credits
Theoretical and practical issues of enterprise systems within organizations. Demonstrates how enterprise systems integrate information and organizational processes across functional areas with a unified system comprised of a single database and shared reporting tools.
Prerequisites: CISB 210.

CISB 310 Enterprise Architecture 3 Credits
Enterprise IT solutions, applications, infrastructure and fit within business organizations.
Prerequisites: CISB 309.

CISB 315 Information Systems Infrastructure 3 Credits
Information systems infrastructure, computer architecture and communications networks in an organizational context.
Prerequisites: CISB 210.

CISB 331 Advanced Business Programming 3 Credits
Procedural and object-oriented software engineering methodologies using modern business languages. Emphasis on data definition and measurement, record and file processing, report generation and other traditional business information systems applications using modern methods of top-down, structured design. Other concepts include developing screen editors, abstract data types, and data structures including sequential, random and indexed files.
Prerequisites: CISB 206 or CSCI 110.

CISB 341 Quantitative Decision Making 3 Credits
Application of inferential statistics to realistic business situations; use of quantitative tools to enhance business decision-making ability. Descriptive statistics for data summarization, probability theory, distributions, estimation, and index numbers with emphasis on hypothesis testing, analysis of variance, regression/correlation, time series, and introduction to operations research and linear programming.
Prerequisites: MATH 113 or higher, and CISB 241 or STAT 241.

CISB 342 Data Mining and Visualization 3 Credits
Application of data mining and visualization tools to business related data sets. Using a blend of data mining and visualization techniques, hands-on experience will be gained in discovering how data can inform the business decision-making process.
Prerequisites: CISB 205, CISB 241 or STAT 241, and CISB 341.
Terms Typically Offered: Fall.

CISB 343 Big Data Analytics 3 Credits
Analysis of large data sets for emergent patterns using modern software tools. Topics can include: NoSQL, cloud computing, and text mining tools.
Prerequisites: CISB 205, CISB 241 or STAT 241, and CISB 341.
Terms Typically Offered: Fall.

CISB 392 Information Systems Theory and Practice 3 Credits
Exploration and application of Information System theory for organizational success. Examination of managerial, user, and IS professional roles within information systems.
Prerequisites: CISB 210.

CISB 393 Cooperative Education 3-12 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CISB 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

CISB 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CISB 410 Project Management 3 Credits
Processes, techniques and tools of project management. Evaluating, initiating, planning, staffing, executing, controlling, and closing projects using project management software.
Prerequisites: CISB 210 is a prerequisite or corequisite if the student has reached junior status.

CISB 442 Systems Analysis and Design 3 Credits
Analysis and logical design of information systems. Practice in project management during team-oriented analysis and design of a departmental level system.
Prerequisites: CISB 210, CISB 309, CISB 315 (may be taken concurrently), CISB 410, and CISB 206 or CSCI 110 or CSCI 111, or permission of instructor.
CISB 451 Database Administration3 Credits
Continuation of CISB 442 Systems Analysis and Design. Covers development and implementation of conceptual and detailed physical system design using proper database tools and methods.
Prerequisites: CISB 205, CISB 442, and ACCT 202.

CISB 460 Electronic Commerce Systems3 Credits
Comprehensive examination of electronic commerce, how it is conducted and managed, and its opportunities, limitations, issues and risks. Coverage of technological infrastructure that supports e-commerce systems, plus the implications of such systems in the business environment. Exercises include exploration of e-commerce web sites and features, plus discussion and demonstration of state-of-the-art e-commerce tools.
Prerequisites: CISB 205, CISB 442, and ACCT 202.

CISB 470 Management of Information Systems3 Credits
Reviews the development of analyzing information use by organizations with different types of information systems. The conceptual foundations of information systems and the development, operation, management, uses, parties, control, structure, and impact of these systems will be addressed. Analysis and design of information systems is stressed through case study projects, emphasizing the role of computing in information systems and design of computer-based systems, expert systems, decision support systems and executive information systems.
Prerequisites: Junior or senior status.

CISB 471 Advanced Information Systems3 Credits
Capstone course for the BS in CIS, the BAS in CIS, and the BBA IS concentration. Integrates management information needs, decision-making criteria, and design of interactive user interfaces. Design and development of computerized management control systems for major functional modules of an organization investigated, utilizing database management systems, distributed processing and structured systems development.
Prerequisites: CISB 210, CISB 310, CISB 315, CISB 331, CISB 410, CISB 442, CISB 451, and CISB 470; or permission of instructor.

CISB 491 Directed Readings in Computer Information Systems1-3 Credits
Study of a leading edge topic within Computer Information Systems under direction of CIS faculty. Prior to registering, the student must meet with the CIS instructor to determine a topic and a method for reporting. For each credit hour registered, the student will read and report on at least 200 pages of scholarly readings.
Prerequisites: CIS major, junior or senior status, and permission of instructor.

CISB 493 Cooperative Education3-12 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CISB 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

CISB 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CISB 500 Management of Information Systems3 Credits
Reviews the development of an overall framework for analyzing the use of information by organizations along with examples of different types of information systems. The conceptual foundations of information systems and the development, operation, management, uses, parties, control, structure, and impact of these systems will be addressed. The analysis and design of information systems is stressed through case study and projects, emphasizing the role of computing in information systems and design of computer-based systems, expert systems, decision support systems and executive information systems.

CISB 505 Advanced Project Management3 Credits
Processes, techniques and tools of project management. Evaluating, initiating, planning, staffing, executing, controlling, and closing projects using project management software. Projects, writing, and presentation to demonstrate mastery at the graduate level.
Prerequisites: CISB 210 and permission of instructor.

CISB 560 Electronic Commerce Systems3 Credits
A comprehensive examination of the modern paradigm of electronic commerce, how it is conducted and managed, and its major opportunities, limitations, issues, and risks. Coverage of technological infrastructures that support e-commerce systems, plus the implications of such systems in the business environment. Exercises will include exploration of e-commerce web sites and features, plus discussion and demonstration of state-of-the-art e-commerce tools.
Prerequisites: Graduate status at Colorado Mesa University.
CSCI 100 Computers In Our Society 3 Credits
The impact of computers on society and individuals; purpose and use of software integrated systems. Intended for students in disciplines outside the natural sciences and mathematics.

Essential Learning Categories: Social and Behavioral Sciences

CSCI 104 Intro to Computer Hardware 1 Credit
Computer hardware introduction. Includes purchase, maintenance and repair of computer hardware (desktops, laptops, servers and mobile devices, wired and wireless network hardware) in individual and corporate settings.

CSCI 106 Web Page Design I 3 Credits
Aspects of Web page design such as HTML, Web servers, Web graphics/sound/video, and programs that automate the design of Web sites and scripts. Students will progressively develop their own sites throughout the term using software tools and concepts presented in the class.

Prerequisites: Familiarity with Windows.

CSCI 110 Beginning Programming 3 Credits
Introduction to computer programming. Includes syntax and semantics for sequential, selection, and repetition structures, program design and modularization simple and structured data types, and file I/O. Designed for majors outside the scientific disciplines. "Subtitle" indicates language of implementation.

Prerequisites: MATH 110 or MATH 113 (either may be taken concurrently) or permission of instructor.

CSCI 110L Beginning Programming Laboratory 1 Credit
An optional laboratory course to be taken as a co-requisite to CSCI 110. This lab is intended for those students currently enrolled in CSCI 110 who have little or no previous programming/computer experience. The student taking this course will complete several computer assignments designed to increase the student's knowledge of programming, debugging, and program design. "Subtitle" indicates language of implementation.

Prerequisites: MATH 113 or permission of instructor.

Corequisites: CSCI 110.

CSCI 111 CS1: Foundations of Computer Science 4 Credits
Introduction to problem solving techniques with emphasis on modularity, abstraction, analysis, and correctness of algorithm design. Using C/C++ language as a tool, topics covered include data types, control structures, I/O, and functions.

Prerequisites: CSCI 110 or MATH 113.

CSCI 112 CS2: Data Structures 4 Credits
Continuation of CSCI 111 with emphasis on algorithm design and analysis, procedural abstraction, data abstraction, and quality programming style. Topics covered include distinction between dynamic and static variables; various implementations of elementary stacks, queues, trees and lists; comparison of recursive and iterative algorithms; program correctness; and hierarchical design principles. Programming exercises will focus on modularity of design and data abstraction.

Prerequisites: CSCI 111.

CSCI 130 Introduction to Engineering Computer Science 3 Credits
Introduces the use of computers in engineering problem solving and elementary numerical methods. Learn programming fundamentals, including data and algorithm structure, and modular programming. Numerical methods learned include solving single, nonlinear equations, fixed-point iteration, Gaussian elimination, and linear regression.

Prerequisites: MATH 135 (may be taken concurrently) or MATH 151 (may be taken concurrently).

CSCI 196 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CSCI 206 Web Page Design II 3 Credits
A continuation of CSCI 106. Students will learn a scripting language and how to incorporate scripts in web page design.

Prerequisites: CSCI 106 or permission of instructor.

CSCI 241 Computer Architecture and Assembly Language 4 Credits
Architecture of a representative processor and its assembly language, introduction to hardware description language, register transfers and sequence control, realization of fetch, address, branch and execute cycles, start, stop and reset the computer, interrupt and memory mapped input/output, peripherals and interfacing.

Prerequisites: CSCI 112.

CSCI 250 CS3: Introduction to Algorithms 3 Credits
Complexity analysis and program performance; abstract data types such as lists, trees, stacks and queues; sorting; searching and hashing.

Prerequisites: CSCI 112.

CSCI 260 Introduction to Database 3 Credits
Introduction to using databases. The focus of this course will be on the creation, retrieval, update, and deletion of data from databases using a variety of database management systems and programming languages.

Prerequisites: CSCI 110.

Terms Typically Offered: Fall, Spring.

CSCI 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CSCI 305 Technology for Mathematics Educators 3 Credits
Project- and activity-based introduction to technology resources appropriate for use by elementary mathematics educators. Focus will be on spreadsheets--programming, modeling, and data manipulation--supplemented with topics chosen from interactive geometry software, interactive applets, simple webpage design, educational simulations and games, and other mathematical technology tools.

Prerequisites: MATH 113 and MATH 301.

CSCI 306 Web Page Design III 3 Credits
Continuation of CSCI 206. Students will consider web site management issues, server-side scripting, security, and database interactions.

Prerequisites: CSCI 206 or permission of instructor.

CSCI 310 Advanced Programming 1-3 Credits
Exploration of a higher level programming language for CSCI/CISB majors. Specifics will vary with the language covered.

Prerequisites: CSCI 111 or CSCI 110.

Course may be taken 4 times for credit.

CSCI 321 Assembly Language Programming 3 Credits
Introduction to assembler, creating and executing assembly language program, organization of machine under study, data definition, addressing techniques, data movement instruction, branching instructions, flag and PSW registers, arithmetic instructions, macros and their implementation, hardware and software interrupts, storing instructions, typical applications.

Prerequisites: CSCI 241.

CSCI 322 Embedded Systems 3 Credits
Introduction to design of embedded systems. Topics include: basic computer electronics, embedded digital communications, and embedded software design.

Prerequisites: CSCI 321.
Prerequisites: CSCI 250.

CSCI 333 UNIX Operating Systems3 Credits
Introduction to systems programming with UNIX. Topics covered include
computer programming languages are covered. Topics will include syntax
and semantic issues, data types/classes, control structures, binding, and
storage allocation.
Prerequisites: CSCI 250.

CSCI 337 User Interface Design3 Credits
Examination of user interface design (UID) principles. They include rules
of perception, systems analysis, user analysis, good design principles,
and testing and evaluation of designs. Using an appropriate Rapid
Application Development tool, students will design a major project
emphasizing UID concepts.
Prerequisites: CSCI 250 or CSCI 260.

CSCI 345 Video Game Design3 Credits
Exploration of game engine and development theory. Emphasis is on
rendering, physics simulation, artificial intelligence, and optimization
techniques used in the modern game construction. Students will develop
at least three games during the semester.
Prerequisites: CSCI 112.

CSCI 370 Computer Security3 Credits
Networked-computer security, suitable for both CS and CIS majors.
Topics include security framework, access control and site security,
firewalls, attack methods, elements of cryptography and cryptographic
systems, incidence response, security in e-commerce and e-mail,
management and policy decisions for security.
Prerequisites: CSCI 250 or CISB 400.

CSCI 375 Object Oriented Programming3 Credits
Advanced programming techniques using the object-oriented paradigm,
with emphasis on abstractness of design, encapsulation, inheritance, and
polymorphism. Additional topics include design tools and methodologies
for determining classes, responsibilities, collaborations, and hierarchies.
Prerequisites: CSCI 250.

CSCI 380 Operations Research3 Credits
Methods of linear and dynamic programming, inventory and replacement
models, queuing theory, game theory, PERT, CPM, and simulation.
Prerequisites: MATH 152, STAT 200, and CSCI 111.

CSCI 393 Internship1-3 Credits
The internship course provides the student with the opportunity to apply
classroom theory to on-the-job experiences. During the internship course,
the student will work at approved professional positions related to the
computer science field. The student will be required to write and fulfill
course objectives with the approval of the internship coordinator.
Prerequisites: Junior standing, written permission of internship
coordinator.
Course may be taken multiple times up to maximum of 15 credit hours.

CSCI 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

CSCI 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CSCI 330 Programming Languages3 Credits
Principles and concepts which characterize various classes of high-level,
computer programming languages are covered. Topics will include syntax
and semantic issues, data types/classes, control structures, binding, and
storage allocation.
Prerequisites: CSCI 250.

CSCI 345 Video Game Design3 Credits
Exploration of game engine and development theory. Emphasis is on
rendering, physics simulation, artificial intelligence, and optimization
techniques used in the modern game construction. Students will develop
at least three games during the semester.
Prerequisites: CSCI 112.

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course objectives with the approval of the internship coordinator.
Prerequisites: Junior standing, written permission of internship
coordinator.
Course may be taken multiple times up to maximum of 15 credit hours.

CSCI 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

CSCI 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CSCI 405 Mobile Application Development3 Credits
Application development on mobile platforms, such as smartphones
and tablets. Topics include understanding hardware, application APFs,
marketplaces, and programming languages for these platforms.
Prerequisites: CSCI 250, CSCI 337 or CSCI 206, or permission of instructor.

CSCI 420 Cyber Security3 Credits
Exploration of various common security flaws in programs and systems
written in C and C++ programming languages. Topics include Linux
commands, shell scripting, C, Buffer overflow, exploits, Man in the Middle
attacks, and red and blue team exercises. Students will learn how to find
various vulnerabilities such as buffer overflow and write simple exploits
to take advantages of the vulnerabilities.
Prerequisites: CSCI 241 and CSCI 370.

CSCI 445 Computer Graphics3 Credits
Introduction to the use of the computer to produce images: two and three
dimensional graphics, algorithms and data structures for hidden lines and
surfaces, shading, and reflections.
Prerequisites: MATH 152 and CSCI 250.

CSCI 450 Compiler Structure3 Credits
Structures and techniques used in compiler writing are discussed with
emphasis on scanners, symbol tables, parsers and code generation. The
front end of a recursive descent parser is written for the semester project.
Error analysis and code optimization are discussed as time permits.
Prerequisites: CSCI 241.
Corequisites: CSCI 330.

CSCI 460 Database Design3 Credits
Design and implementation of relational databases. Approaches and
methods of design and normalization, SQL, integrity, and security will be
discussed.
Prerequisites: CSCI 250.

CSCI 465 Network/Application Security3 Credits
Exploration of advanced topics in network and web-based application
security such as network vulnerability management, network monitoring,
intrusion detection and prevention, government and industry security
compliances, wireless security, most common web application security
flaws, browser and database security principles, and authentication and
authorization in web applications.
Prerequisites: CSCI 420.

CSCI 470 Operating Systems Design3 Credits
Aspects of computer operating system design and implementation
including memory management, processor management, device
management, information management and performance evaluation
methods. Some knowledge of C is required.
Prerequisites: CSCI 250 and CSCI 241.

CSCI 480 Theory of Algorithms3 Credits
Techniques for analyzing time and space requirements of computer
algorithms. Models are set up for analysis and techniques are applied
to algorithms related to sorting and searching, pattern-matching, graph
problems and other selected problems. The notion of NP-hard problems
is introduced and related problems are discussed.
Prerequisites: MATH 152 and CSCI 250.
CSCI 482 Theory of Computation 3 Credits
Computability and automata theory introduced. Regular expressions, finite and pushdown automata, Turing machines, grammars and their relationship to automata, Church-Turing hypothesis, incomputable and undecidable functions and equivalence of computability models are covered.
Prerequisites: MATH 369 and CSCI 250.

CSCI 484 Computer Networks 3 Credits
Topics include: hardware technology for local and long haul networks, circuit and packet switching, interface between computer and network hardware, network architectures and protocols, routing, congestion and flow problems, queuing theory, and reliability issues. Instructors may choose to implement a sample network in which case the contents may be particularized to that network.
Prerequisites: STAT 200.

CSCI 486 Artificial Intelligence 3 Credits
Introduction to artificial intelligence programming with study of topics such as knowledge representation, expert systems, solution space search, non-deterministic algorithms (neural nets, genetic algorithms), etc. Programs will be written in a selected AI programming language such as Lisp or Prolog.
Prerequisites: CSCI 250.

CSCI 490 Software Engineering 3 Credits
Exploration of the philosophy of software engineering. Software project planning, requirement analysis, software system design and strategies, software design tools, program and system testing, system maintenance, and economics are examined.
Prerequisites: CSCI 250 and CSCI 330.

CSCI 494 Seminar 1-3 Credits
Discussions of specialized topics by students, faculty, or visiting professors. One or two one-hour meetings per week.
Course may be taken 10 times for credit.

CSCI 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

CSCI 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
CONSTRUCTION MANAGEMENT (CONM)

CONM 181 Principles of Construction Management 3 Credits
Construction industry practice emphasizing business organization and management techniques. Includes principles of management, organizational environments, decision-making, design, technology, leadership, and basic construction management with terminology, estimating and scheduling. This course replaces MANG 201 requirements for Construction Management majors only. It does not substitute for MANG 201 in any other way.

CONM 234 Graphic Communication for Construction Management 3 Credits
Integrated approaches for developing plan reading skills and creation of visual communications, including 3D digital model and pictorial development using current industry software. Corequisites: CONM 181.

CONM 264 Mechanical/Industrial Systems 3 Credits
Analysis and design understanding of specialty mechanical and industrial processes. Includes fundamentals of thermodynamics, fluids, control interface issues, system testing and commissioning. Emphasis on fundamental theory followed by proof of concepts through practicum. Lecture, lab and field exercises. Prerequisites: MATH 113, CONC 101, and CONM 181.

CONM 316 Construction Materials and Methods 3 Credits
Materials and methods utilized in design and construction of vertical and horizontal projects. Course addresses proper construction methods and governing trade association standards. Sustainability and ethics relating to specification, ordering, and installation of construction materials incorporated. Prerequisites: CONC 101 and CONC 208.

CONM 340 Construction Estimating and Bidding 3 Credits
Application of industry-recognized methods of construction estimating to compile conceptual systems and detailed estimates. Emphasis on students’ ability to communicate estimate results in written and oral presentations. Prerequisites: CONC 228.

CONM 361 Advanced MEP Systems 3 Credits
Electrical, heating, ventilation, air conditioning, plumbing, and fire suppression. Emphasis on design, operation, and interaction. Principles of codes, design, methods and materials as applicable to the construction industry included. Building system controls for smart buildings integrated in each component. Prerequisites: CONC 161.

CONM 362 Structure Analysis - Statics/Materials Strength 3 Credits
Behavior of structural components and systems plus a broad overview of structural engineering analysis/design process. Principles of statics and strength of materials including properties of materials, forces, equilibrium, stresses and strains studied. Emphasis on understanding behavior of structural components associated with construction processes. Prerequisites: MATH 130 and PHYS 111/PHYS 111L.

CONM 370 Managing Safety and the Regulatory Environment 3 Credits
Impact of safety on the construction industry, in-depth discussions concerning application of O.S.H.A. Safety and Health Standards for the Construction Industry. Course emphasis on safety management training for jobsite supervisory personnel. Additionally, various regulatory requirements encountered in construction addressed. Prerequisites: CONC 101 and junior status.

CONM 380 Construction Project Management 3 Credits
Exploration of the professional practices performed by the project team for successful job site management, including the relationship of project participants and methods of communication, evaluation of project objectives in decision making, relationship of different project contract delivery methods, and how to develop, understand, and use contracts for job site management. Prerequisites: CONM 340.

CONM 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

CONM 462 Soil and Foundation Construction 3 Credits
Properties of subsurface materials and principles of subsurface construction. Topics include soil classification and testing, soil mechanics, earthmoving operations and foundation systems from a contractor’s perspective. Techniques of subsurface investigations and subsequent interpretation of soil reports studied to understand foundation construction methods and related field problems. Prerequisites: CONM 362. Corequisites: CONM 462L.

CONM 462L Soil and Foundation Construction Laboratory 1 Credit
Properties of subsurface materials and principles of subsurface construction. Topics include soil classification and testing, soil mechanics, earthmoving operations and foundation systems from a contractor’s perspective. Techniques of subsurface investigations and subsequent interpretation of soil reports studied to understand foundation construction methods and related field problems. Prerequisites: CONM 362. Corequisites: CONM 462.

Terms Typically Offered: Spring.

CONM 472 Construction Planning and Scheduling 3 Credits
Planning, scheduling and controlling construction operations. Emphasis on the planning phase of construction projects, logic diagrams, network-based scheduling techniques, and computer-assisted scheduling. Application of industry-recognized scheduling methodology to construction projects. Emphasis on communicating project schedules in written and oral presentations. Prerequisites: CONC 228.

CONM 475 Construction Company and Financial Management 3 Credits
Exploration of concepts in starting, owning, and operating a construction company. The student engages in identifying the purpose, vision, values, short-term and long-term objectives, and execution plans of company. Accounting methods and systems are studied. Analysis of financial statements in developing budgets, projecting cash needs, and forecasting impacts of business decisions on profit. Prerequisites: CONM 380 and FINA 301.

CONM 485 Construction Management Issues 3 Credits
Issues facing the professional constructor. Integration of project management includes field study, research, case readings, problem solving, and project deliverables. Prerequisites: Senior status, and permission of instructor.
CONM 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

CONM 496 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CONM 499 Construction Internship 1-6 Credits
University/construction industry partnership to provide real-life working experiences. The internship program's primary purpose is to prepare the construction management student with leadership responsibilities in a technologically oriented, diverse, dynamic and global construction environment.

Prerequisites: CONM 380, and permission of instructor.
CONSTRUCTION TECHNOLOGY (CONC)

CONC 101 Construction Safety and Regulations
Construction safety and its effect on productivity and employee morale. Application of basic principles of accident prevention. Complying with the various federal, state, and local laws governing safety (OSHA), hazardous chemicals, and drugs in the workplace.

CONC 104 Architectural/Civil Print Reading
Reading and hand-drafting prints as used in industry, application of that information to various architectural and civil industries.

CONC 116 Building Materials
Introduction to building materials and methods commonly used today. Includes interior and exterior materials from foundations to roof systems.

CONC 117 Building Materials Testing
Introduction to the properties and testing of materials used in today's construction projects. This includes wood products, metal, soil, aggregates, concrete, and asphalt.

Prerequisites: CONC 116 or permission of instructor.

CONC 161 Building Mechanical/Electrical
Introduction to basic electrical, plumbing, heating, ventilation, and air conditioning systems found in residential and commercial building. Basic theory and design concepts included.

Prerequisites: Permission of instructor.

CONC 196 Topics
Course may be taken multiple times up to maximum of 15 credit hours.

CONC 208 Construction Equipment
Basic understanding of general equipment and methods employed in different sectors of the construction industry. Areas covered are factors affecting the selection of equipment, rental versus ownership of equipment, estimating earthwork quantities, figuring equipment production, equipment management, and quality control of projects.

CONC 218 Surveying
The fundamentals of modern plane surveying techniques and basic surveying instruments. Emphasis on construction-related aspects of surveying and the development of skills in using surveying field information.

Prerequisites: MATH 107 or MATH 113.

CONC 228 Estimating and Cost Control
The estimation process, the role of the estimator, types of estimation, CSI Divisions, bid/contract documents, change order pricing, value engineering, design build projects, and estimate compilation and cost controls.

Prerequisites: CADT 105, CONC 116, CONC 161, CONC 208 or permission of instructor.

CONC 234 Commercial/Industrial Plans
Introduction to the commercial/industrial construction industry. Processes, practices, and materials typically used in commercial/industrial construction will be studied.

CONC 245 Project Management
Principles of project planning, scheduling, estimation and management. Emphasis on the basic skills required to supervise personnel including oral communication, problem identification, problem solving and decision-making. The course will also cover how to control productivity on the project.

Prerequisites: CONC 228 or permission of instructor.

CONC 251 Construction Prep: Codes, Permits
Legal aspects including liens, contracts, bids, specifications, building permits and licensing, inspections and the Uniform Building Code. Introduces intra-trade coordination, remodeling and additions, construction practices, construction management and supervision.

CONC 265 Planning and Scheduling for the Construction Supervisor
Planning the sequence, duration and relationship of activities for a construction project. Communicate the plan to contractual parties and to use the plan as reference point for examining project changes. Includes planning for safety, organization, manpower, problem solving, and site layout.

Prerequisites: Permission of instructor.

CONC 270 Practical Applications
Supplemental coursework with practical work experience related to educational program. Students will work under the immediate supervision of experienced personnel at the business location. Students will work on construction sites or projects related to their career field of interest with advice of faculty.

Prerequisites: Permission of Instructor.

CONC 296 Topics
Course may be taken multiple times up to maximum of 15 credit hours.
CRIMINAL JUSTICE (CRMJ)

CRMJ 110 Orientation to Criminal Justice Inquiry1 Credit
Prerequisites: Must be a declared criminal justice pre-major.

CRMJ 196 Topics1 Credit
Course may be taken multiple times up to maximum of 15 credit hours.

CRMJ 201 Introduction to Criminal Justice3 Credits
Philosophy, history and development of the American criminal justice system. Survey of the role of law enforcement agencies, the courts, jails, prisons, probation and parole in both juvenile and adult systems.
Prerequisite or Corequisites: CRMJ 110.

CRMJ 210 Emergency Dispatching4 Credits
Fundamentals of emergency dispatching. Includes basic principles of emergency communications operations and technology, call management and classification, legal aspects of dispatching, and stress management. Extensive practical training in police and fire emergency dispatching scenarios.
Prerequisites: ENGL 111, CRMJ 201, and MATH 107 or higher.

CRMJ 296 Topics1-4 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

CRMJ 301 Criminal Procedure3 Credits
Analysis of landmark U.S. Supreme Court cases and their impact on operating procedures of law enforcement and the courts. Focuses on Fourth, Fifth, and Sixth Amendments to the U.S. Constitution.
Prerequisites: CRMJ 110, CRMJ 201, CRMJ 310, CRMJ 320, CRMJ 328.

CRMJ 302 Ethics in Criminal Justice3 Credits
Examination of ethics in the criminal justice system from investigation, arrest, prosecution, defense, and corrections.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 310 The Police Process3 Credits
Basic features of policing in the United States. Police work, police organizations, police officers, and the critical problems facing policing today are examined in social and political context.
Prerequisites: CRMJ 201.

CRMJ 311 Victimology3 Credits
Study of crime victims, their numbers, common characteristics, and roles they play in their own victimization. Legal, psychological, and social perspectives explored. Various theoretical explanations regarding both first-time and repeat victimizations discussed.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 315 Research Methods in Criminal Justice3 Credits
Research methods and their application to Criminal Justice.
Prerequisites: CRMJ 310, CRMJ 320, CRMJ 328, MATH 110 or higher, STAT 215.

CRMJ 320 Corrections3 Credits
The role of corrections in the criminal justice system: history, guiding philosophies and theories, treatment approaches, custody issues, and supervision of offenders on probation and parole.
Prerequisites: CRMJ 201 or permission of instructor.

CRMJ 325 Juvenile Justice and Delinquency3 Credits
Juvenile delinquency and juvenile justice in the United States. Comparative component involved. Focus on the nature and extent of delinquency, causes of delinquency, theoretical explanations, patterns of delinquency, and social reaction to delinquency.
Prerequisites: CRMJ 310, CRMJ 320, CRMJ 328.

CRMJ 328 American Court Systems3 Credits
The American court system; local, state, and national, including consideration of the impact of prosecutors, defense personnel, judges, and other factors on court decisions and the criminal justice system.
Prerequisites: CRMJ 201 or POLS 101.

CRMJ 330 Domestic Violence3 Credits
Exploration of intimate and domestic violence through a life-course perspective. Child abuse and neglect, intimate partner violence, and elder abuse and neglect considered. Criminal justice responses and prevention efforts critically examined.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 335 Community Policing3 Credits
Contemporary policing philosophy used and accepted by most policing organizations, domestic and foreign. Concept of community policing, history of the movement as well as the various issues in its adoption and implementation. Philosophy of community policing affecting both policing organizations and the community. Impact of community policing on crime, fear of crime, and the community in which utilized.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 340 Community Corrections3 Credits
Applied and practical approach to community corrections. Assessment, supervision, reintegration, and community partnerships emphasized. Special needs populations, unique issues and challenges, and insights into day-to-day experiences of various community corrections practitioners examined.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 360 Crime and Deviance3 Credits
Relationship between crime, deviance, and social control. Differences in definitions of criminal and deviant behaviors explored. Various criminological and sociological theories of deviance analyzed. Focus on relation to crime and social control. Societal response to deviance critically examined.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 370 Criminology3 Credits
Major paradigms in the field of criminology and major contributions to the field in the U.S. and abroad. Emphasis on socio-historical development and philosophical movements that shaped criminological theory and its implications for criminal justice.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 375 Women and Crime3 Credits
Nature of criminality pertaining to women. How and why women are treated differently than males in the criminal justice system. Analysis of why women make up a small but growing portion of criminal offenders. Explores the ramifications of criminal activity on women. Possible solutions and alternatives to the unique issues of female offenders.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 395 Independent Study1-3 Credits
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.
Course may be taken multiple times up to maximum of 6 credit hours.

CRMJ 396 Topics1-3 Credits
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.
Course may be taken multiple times up to maximum of 15 credit hours.
CRMJ 405 Civil Liability for Law Enforcement and Corrections3 Credits
Overview of civil liability of law enforcement and correctional officers. Torts and civil rights remedies, the doctrine of respondent superior, and chain of liability. Specific issues of use of force, failure to protect, searches and segregation, inadequate medical care, and negligence examined.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 410 Criminal Investigations3 Credits
Analysis of the investigative process and techniques employed in a contemporary criminal investigation. Considers theory and methodology of criminal investigation, and legal dynamics relative to achieving the major goals of an investigation. Use of practical and interactive experiences involves students in the investigative process by utilizing field exercises such as evidence collection and preservation, simulations related to crime scenes, surveillance activities, victim/suspect interviews and interrogations, and sound case preparation.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 412 Constitutional Law3 Credits
An analysis of American constitutional theory as articulated by the U. S. Supreme Court. Specific topics include the nature of judicial review, the powers of the President and Congress, federalism, the regulation of commerce and the development of substantive due process.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 415 Counter-Terrorism and Law Enforcement3 Credits
Emergence of modern terrorism and efforts to combat it. Strategies and systems involved in protecting against and responding to threats. Survey of major policies, practices, concepts, and challenges confronting practitioners in the complex field of counterterrorism and homeland security. Exploration of various issues facing law enforcement agencies in counterterrorism efforts.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 420 Criminal Law3 Credits
Philosophy, history and current state of criminal law with emphasis on analysis and application of Colorado Statutes and the American Law Institute Model Penal Code.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 425 Trial, Evidence and Legal Advocacy3 Credits
Development of written and oral advocacy skills through critical examination of legal issues, focusing on the interpretation of statutory laws and analysis of relevant case law to formulate sound, persuasive argument throughout the adversarial process. Considers trial procedure and the law of evidence.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.

CRMJ 440 Capital Punishment3 Credits
Examination of the issues related to the death penalty in the United States, including the history of capital punishment, important Supreme Court decisions, the process of capital punishment, the comparative costs of incarceration and execution, miscarriages of justice in capital cases, and how the criminal justice system responds to these issues.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328, or permission of instructor.

CRMJ 465 Contemporary Issues in Criminal Justice3 Credits
Focused analysis of specific contemporary issues in criminal justice. Topics vary according to current events and instructor expertise.
Prerequisites: CRMJ 310, CRMJ 320, and CRMJ 328.
CRIMINAL JUSTICE-POST (CRJW)

CRJW 101 Basic Police Academy 6 Credits
Conforms to POST standards and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. Emphasis will be on simulating actual situations utilizing a lecture and laboratory mode of learning.
Prerequisites: Permission of Academy Director.
Fees: Yes.

CRJW 102 Basic Police Academy II 10 Credits
Conforms to POST standards and state certification requirements as well as the basic skills and knowledge to perform the entry level duties of a peace officer. Emphasis will be on simulating actual situations utilizing a lecture and laboratory mode of learning.
Prerequisites: Permission of Academy Director.
Fees: Yes.

CRJW 105 Basic Law 6 Credits
Conforms to POST standards and state certification requirements as well as the basic skills and knowledge necessary to perform the entry level duties of a peace officer. Emphasis will be on United States Constitution, arrest, search and seizure, interrogation and confessions, rules of evidence, Colorado Criminal Code, Colorado Traffic Code, Colorado Children’s Code, Liquor Code and controlled substances.
Prerequisites: Permission of Academy Director.
Fees: Yes.

CRJW 106 Arrest Control 3 Credits
Covers the skills, knowledge and abilities necessary to effectively maintain control of a suspect when making an arrest. Emphasizes the continuum of force and de-escalation of force.
Prerequisites: Permission of Academy Director.
Fees: Yes.

CRJW 107 Law Enforcement Driving 2 Credits
Covers the skills, knowledge and abilities required for operation of a law enforcement vehicle. Emphasizes defensive driving. Enables students to demonstrate skills by driving a vehicle under simulated conditions.
Prerequisites: Permission of Academy Director.
Fees: Yes.

CRJW 108 Firearms 3 Credits
Discusses the skills, knowledge and abilities necessary to safely use police firearms. Students will demonstrate skills by firing weapons on a firing range. The student will demonstrate basic safety techniques and will explain the firearms role within the continuum of force.
Prerequisites: Permission of Academy Director.
Fees: Yes.

CRJW 210 Emergency Dispatching 4 Credits
Introduction to the basic fundamentals of emergency dispatching, to include basic principles of emergency communications operations and technology, call management and classification, legal aspects of dispatching, and stress management. Extensive practical training in police and fire emergency dispatching scenarios.
Prerequisites: ENGL 111, MATH 107 or higher, CRMJ 201, and permission of instructor.

CRJW 270 Homicidal Drowning Investigations 2 Credits
Homicidal Drowning Investigations - The approaches to water related death investigations. Exploration of the crime scene.
Prerequisites: POST association, or Criminal Justice Major, or Law Enforcement, or Forensic study, or Fire Service, or Emergency Medical Services, or permission of instructor.
Fees: Yes.

CRJW 280 Public Safety Diving Phase 14 Credits
Public safety diving environments. The formation of responsible scuba diving practices. Includes Basic Open Water Scuba Certification and protection from contaminated working environments.
Prerequisites: POST association, or Criminal Justice major, or Fire Service or medical evaluation, or physically fit or permission of instructor.
Fees: Yes.

CRJW 290 Underwater CSI 2 Credits
Prerequisites: CRJW 280, medical evaluation, physically fit, or permission of instructor.
Fees: Yes.

CRJW 296 Topics 1-4 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
CULINARY ARTS (CUAR)

CUAR 101 Food Safety & Sanitation2 Credits
Exploration of the basic rules of sanitation, food-borne illnesses, safe food temperatures, and safe food handling techniques.

CUAR 115 Introduction to Sustainable Cuisine3 Credits
Impact of human food production systems on environment and society. Focus on meeting present food needs without compromising future generations. Topics include connections among agriculture, food production, ecology, ethics, nutrition, health, cuisine and foodservice operations.

CUAR 120 Wine and Spirits2 Credits
Examination of types of beverages and equipment including wines, beers, and spirits. Profitability, marketing, federal and local laws, and service will be discussed. The history of making and processing wines, spirits and beers will be studied.

CUAR 121 Introduction to Food Production1 Credit
Fundamental principles of commercial kitchen operations.

CUAR 122 Introduction to Hot Foods1 Credit
Fundamental principles of stocks, soups, sauces, gravies, and products in the kitchen.

CUAR 123 Introduction to Garde Manger1 Credit
Fundamental principles of cold foods and non-alcoholic beverage preparation.

CUAR 124 Food Production Applications1 Credit
Basic cooking principles and practices in the production of stocks, soups, sauces and gravies, and vegetables, starches, fruits, salads, and dressing.

CUAR 125 Introduction to Foods4 Credits
Exploration of fundamental principles and practices of a commercial kitchen, including the organization of work, and basic cooking methods. 
Corequisites: CUAR 101 or permission of instructor.

CUAR 126 End of Class4 Credits
Introduction to techniques of food production and presentation using large scale equipment.

CUAR 129 Center of the Plate4 Credits
Provides the basic methods for preparation and cooking of a variety of complete meals in a commercial kitchen. 
Corequisites: CUAR 125 and CUAR 101 or permission of instructor.

CUAR 131 Vegetables, Starches, Pastas, Breakfast and Short Order Cookery1 Credit
Preparation of vegetables, starches, breakfast and grilled items.

CUAR 132 Center of the Plate: Meat1 Credit
Preparation of a variety of meat dishes.

CUAR 133 Center of the Plate: Poultry, Fish1 Credit
Preparation of a variety of seafood and poultry dishes.

CUAR 134 Food Production Applications1 Credit
Practical application of food production techniques related to courses CUAR 121, CUAR 122, CUAR 123, CUAR 134, CUAR 131, CUAR 132, and CUAR 133.
Prerequisites: CUAR 124.

CUAR 141 Basic Baking Principles and Ingredients1 Credit
Fundamentals of baking terminology, principles of baking, and the characteristics and functions of the main ingredients used in bakery production.

CUAR 142 Basic Yeast-Raised Products and Quick Breads1 Credit
Application of basic yeast-raised baking principles.

CUAR 143 Cakes, Pies and Pastry, Cookies1 Credit
Application of basic cake, pie, pastry, and cookie production.

CUAR 144 Baking Applications1 Credit
Application of basic baking principles and production.

CUAR 145 Introduction to Baking4 Credits
Exploration of basic baking principles, the characteristics and functions of ingredients, and production techniques for a variety of baked goods in a commercial kitchen. 
Corequisites: CUAR 125 and CUAR 129.

CUAR 150 Baking: Decorating and Presentation3 Credits
Introduction to techniques and equipment used in the modern bakery to produce, decorate and present pastries and desserts using a variety of products. 
Prerequisites: CUAR 145.

CUAR 151 Intermediate Bread Preparation3 Credits
Examines techniques and equipment used in the modern bakery to craft traditional and artisanal yeast breads using a variety of commercial and pre-ferment/wild yeast leavening methods and production techniques. 
Prerequisites: CUAR 145.

CUAR 152 Individual Fancy Desserts Production3 Credits
Preparation and decoration of individual dessert items using production techniques and equipment used in commercial bakeries to craft traditional and modern pastries, tarts, petite fours and cookies. 
Prerequisites: CUAR 145.

CUAR 153 Confectionaries and Petit Fours3 Credits
Introduces the art of advanced pastry skills utilized to craft specialty items such as chocolates, candies and confections, marzipan and pastillage sculpture, and petit fours.
Prerequisites: CUAR 145.

CUAR 154 Introduction to Sustainable Cuisine3 Credits
Focus on meeting present food needs without compromising future generations. Topics include connections among agriculture, food production, ecology, ethics, nutrition, health, cuisine and foodservice operations.

CUAR 156 Nutrition for the Hospitality Professional3 Credits
Fundamentals of nutrition as they apply to the food service industry.

CUAR 160 Cake Decorating5 Credits
Variety of cake decorating techniques including flowers, leaves, borders, and attractive arrangements. Preparation of and work with gumpaste, rolled fondant and airbrushing techniques. Prerequisite for CUAR 163.
Prerequisites: CUAR 101 and CUAR 145.

CUAR 163 Advanced Wedding Cakes3 Credits
Refinement of skills in the creation of specialty cakes. Wedding cakes and other tiered cakes for special events.
Prerequisites: CUAR 145 and CUAR 160.

CUAR 179 Wines, Spirits and Beers3 Credits
Explores production, marketing and service of wines, spirits and beers from around the world. Includes local and regional craft wine, spirit and beer production. Covers profitability, marketing, federal and local laws, identification of equipment, glassware, and staffing. Service Safe Alcohol certification exam administered.
Prerequisites: CUAR 145.

CUAR 190 Dining Room Management 4 Credits
Explores service related skills common to the “front of the house” through hands-on training in a restaurant dining room.
Prerequisites: Permission of instructor.
Corequisites: CUAR 233.
CUAR 196 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
CUAR 220 Fundamentals of Healthy Cooking 3 Credits
Application of theory and production techniques required to prepare and serve foods that emphasize the importance of a healthy diet, promote beneficial eating habits, and encourage the personal enjoyment of cooking and eating.
Fees: Yes.
CUAR 233 Advanced Line Prep and Cookery 4 Credits
Preparation of complete meals to order. Emphasizes cooking “center of the plate” items such as meat, fish, seafood, and poultry in a commercial kitchen.
Prerequisites: CUAR 125, CUAR 129, and CUAR 145, or permission of instructor.
Corequisites: CUAR 190.
Fees: Yes.
CUAR 236 Advanced Baking 3 Credits
Refinement of skills in the creation of breads and pastries, dessert garnishes and accompanying sauces, and specialty dessert products.
Prerequisites: CUAR 145.
Fees: Yes.
CUAR 245 International Cuisine 3 Credits
Introduces full meal preparation of a variety of international cuisines. Ethnic ingredients and meals from the Mediterranean, Latin America, Southeast Asia, India, China, and Japan will be introduced.
Prerequisites: CUAR 101, CUAR 125, and CUAR 129.
Fees: Yes.
CUAR 251 Advanced Garde Manger and Hors D’Oeuvres 3 Credits
Introduces the student to a broad array of both hot and cold hors d’oeuvres and appetizers. Students learn to prepare various ethnic hors d’oeuvres including tapas, antipasta, sushi, classical and contemporary canapes as well as show mirrors and platters.
Prerequisites: CUAR 101 and CUAR 125.
Fees: Yes.
CUAR 255 Supervision in the Hospitality Industry 3 Credits
Skills necessary for creating a goal-oriented environment utilizing management principles in the hospitality industry.
CUAR 261 Cost Controls 3 Credits
Explores the costs usually found in the food service industry and the techniques used to control them.
CUAR 262 Purchasing for the Hospitality Industry 3 Credits
Explores the purchasing, selection, and procurement of food and supplies in the hospitality industry.
Fees: Yes.
CUAR 269 Dietary Baking 3 Credits
Examines techniques and equipment used to produce high quality bakery products that address the issue of common food allergens and intolerances.
Prerequisites: CUAR 145 and CUAR 156.
Fees: Yes.
CUAR 271 Techniques of Culinary Competition - Hot Food 3 Credits
Fundamental principles and technical skills, required to engage in hot food culinary competition. Precision in the areas of knife skills, mise en place, recipe development, perfect execution of culinary technique, and exploration of in-depth organizational processes.
Prerequisites: CUAR 271.
CUAR 272 Techniques of Culinary Competition - Cold Food 3 Credits
Fundamental principles and technical skills required to engage in cold food culinary competition. Exposure to theories and principles of cold food show platters, elementary glazing techniques, hot food shown cold and other cold food competition concepts.
CUAR 272A Advanced Techniques of Culinary Competition - Cold Food 3 Credits
Fundamental principles and technical skills required to engage in cold food culinary competition. Precision in knife skills, mise en place, recipe development, perfect execution of culinary techniques, and exploration of in-depth organizational processes. Advanced techniques of culinary competition for culinary teams advancing to the next level of competition.
Prerequisites: CUAR 272.
CUAR 281 Internship 1-6 Credits
Places students in an actual work situation where they participate in the operation of a foodservice establishment. Course may be taken 10 times for credit.
CUAR 296 Topics: 1-5 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
Fees: Yes.
DANCE (DANC)

DANC 115 Dance Appreciation-GTAH13 Credits
Exploration of the roots and trends of the art of dance from the primitive to the contemporary. Introduction of esthetic guidelines for looking at dance as it relates to America and the world.

Essential Learning Categories: Fine Arts
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

DANC 154 Dance Team1 Credit
Participation on the Mavettes Dance Team at the freshman standing level. Audition or permission of instructor required. Only one credit hour of DANC 154 counts as a KINA activity credit.

DANC 156 Dance Performance1 Credit
Student participation in the production of a dance supervised by faculty or guest artist. Students must audition.
Corequisites: one technique class.
Course may be taken 2 times for credit.

DANC 160 Beginning Ballet1 Credit
Includes alignment, balance, endurance, flexibility, and strength in elementary technical proficiency.

DANC 169 Beginning Modern Dance1 Credit
Includes alignment, balance, endurance, flexibility, and strength in elementary technical proficiency.

DANC 174 Beginning Jazz Dance1 Credit
Including terminology, theory, history & critical analysis of the Art Form.

DANC 177 Beginning Tap Dance1 Credit
Including terminology, theory, history & critical analysis of the Art Form.

DANC 180 Beginning Hip Hop Dance1 Credit
Fundamentals of Hip Hop, including alignment, balance, endurance, flexibility, and strength, in elementary technical proficiency.
Course may be taken 2 times for credit.

DANC 181 Ballet I2 Credits
Beginning ballet technique for students intending to progress to an intermediate level.
Course may be taken 2 times for credit.

DANC 182 Jazz I2 Credits
Beginning jazz technique for students intending to progress to an intermediate level.
Course may be taken 2 times for credit.

DANC 183 Modern I2 Credits
Beginning modern technique for students intending to progress to an intermediate level.
Course may be taken 2 times for credit.

DANC 184 Tap I2 Credits
Beginning tap technique for students intending to progress to an intermediate level.
Course may be taken 2 times for credit.

DANC 196 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

DANC 219 Ballroom Dance2 Credits

DANC 225 The Healthy Dancer3 Credits
Exploration into conditioning, nutrition, injury prevention, basic anatomy and motivational techniques unique to the dance student.

DANC 230 Modern II A2 Credits
Intermediate modern dance technique.
Prerequisites: DANC 169 or permission of instructor.
Course may be taken 2 times for credit.

DANC 231 Modern II B2 Credits
Intermediate modern dance technique.
Prerequisites: DANC 230 or permission of instructor.
Course may be taken 2 times for credit.

DANC 232 Jazz II A2 Credits
Intermediate jazz dance technique.
Prerequisites: DANC 174, or permission of instructor.
Course may be taken 2 times for credit.

DANC 233 Jazz II B2 Credits
Intermediate jazz dance technique.
Prerequisites: DANC 232 or permission of instructor.
Course may be taken 2 times for credit.

DANC 234 Ballet II A2 Credits
Intermediate ballet technique.
Prerequisites: DANC 160, or permission of instructor.
Course may be taken 2 times for credit.

DANC 235 Ballet II B2 Credits
Intermediate ballet technique.
Prerequisites: DANC 234 or permission of instructor.
Course may be taken 2 times for credit.

DANC 236 Tap II A2 Credits
Intermediate tap dance technique.
Prerequisites: DANC 180 or permission of instructor.
Course may be taken 2 times for credit.

DANC 237 Tap II B2 Credits
Intermediate tap dance technique.
Prerequisites: DANC 236 or permission of instructor.
Course may be taken 2 times for credit.

DANC 250 Dance Improvisation2 Credits
Introduction to and application of basic theories of dance improvisation.

DANC 254 Dance Team1 Credit
Participation on the Mavettes Dance Team at the sophomore standing level.

DANC 255 Choreography2 Credits
Introduction to and application of basic theories of choreography, including principles of critical analysis.
Prerequisites: DANC 250 or permission of instructor.

DANC 256 Dance Performance1 Credit
Student participation in the production of a dance supervised by faculty or guest artist. Students must audition.
Corequisites: one technique class.
Course may be taken 2 times for credit.

DANC 280 Hip Hop II1 Credit
Intermediate theory and practice of Hip Hop.
Prerequisites: DANC 180 or permission of instructor.

DANC 290 Choreography Practicum II1 Credit
Student practice in choreography and producing an original dancework. May be repeated once for credit.
Course may be taken 2 times for credit.

DANC 296 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
DANC 310 Dance Pedagogy 3 Credits
Theory and application of methods of teaching dance techniques.
Prerequisites: 4 semester hours of dance technique (ballet, jazz, modern and/or tap).

DANC 315 History and Philosophy of Dance I 3 Credits
Cultural and historical exploration of dance, from its primitive roots to the 20th Century.
Prerequisites: ENGL 112.

DANC 316 History and Philosophy of Dance II 3 Credits
Cultural, historic, and aesthetic exploration of dance in the 20th Century.
Prerequisites: DANC 315.

DANC 328 Music Analysis for Dance 3 Credits
Exploration of rhythmic structure inherent in dance, including music notation, rhythmic coordination as it relates to dance and musicality of the body.
Prerequisites: Permission of instructor.

DANC 330 Modern IIIA 2 Credits
Intermediate to advanced modern dance technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 331 Modern IIB 2 Credits
Intermediate to advanced modern dance technique.
Prerequisites: DANC 330 or permission of instructor.
Course may be taken 2 times for credit.

DANC 332 Jazz IIIA 2 Credits
Intermediate to advanced jazz dance technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 333 Jazz IIB 2 Credits
Intermediate to advanced jazz dance technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 334 Ballet IIIA 2 Credits
Intermediate to advanced ballet technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 335 Ballet IIB 2 Credits
Intermediate to advanced ballet technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 336 Tap IIIA 2 Credits
Intermediate to advanced tap dance technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 337 Tap IIB 2 Credits
Intermediate to advanced tap dance technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 354 Dance Team 1 Credit
Participation on the Mavettes Dance Team at the junior standing level.

DANC 355 Advanced Choreography 3 Credits
Advanced investigation and application of theories of choreography, including critical analysis of the art form.
Prerequisites: DANC 255 or permission of instructor.

DANC 356 Dance Performance 1 Credit
Student participation in the production of a dance work supervised by faculty or guest artist.
Prerequisites: by audition, DANC 256, or permission of instructor.
Corequisites: one technique class.
Course may be taken 2 times for credit.

DANC 390 Choreography Practicum I 1 Credit
Advanced investigation and application of theories of choreography, including critical analysis of the art form.
Prerequisites: by audition, DANC 256, or permission of instructor.
Corequisites: one technique class.
Course may be taken 2 times for credit.

DANC 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

DANC 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

DANC 430 Modern IVA 2 Credits
Intermediate/advanced modern dance technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 431 Modern IVB 2 Credits
Advanced modern dance technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 432 Jazz IVA 2 Credits
Advanced jazz dance technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 433 Jazz IVB 2 Credits
Intermediate to advanced jazz dance technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 434 Ballet IVA 2 Credits
Intermediate to advanced ballet technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 435 Ballet IVB 2 Credits
Advanced ballet technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 436 Tap IVA 2 Credits
Intermediate to advanced tap dance technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 437 Tap IVB 2 Credits
Advanced tap dance technique.
Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

DANC 454 Dance Team 1 Credit
Participation on the Mavettes Dance Team at the senior standing level.

DANC 456 Dance Performance 1 Credit
Student participation in the production of a dance work supervised by faculty or guest artist.
Prerequisites: by audition, DANC 356, or permission of instructor.
Corequisites: one technique class.
Course may be taken 2 times for credit.
DANC 490 Choreography Practicum III 1 Credit
Student practice in choreography and producing an original dance work. May be repeated once for credit. **Prerequisites:** DANC 390 or permission of instructor. Course may be taken 2 times for credit.

DANC 494 Senior Dance Capstone 3 Credits
Exploration of and preparation for dance professions/careers for upper division dance students.

DANC 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

DANC 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
DIGITAL FILMMAKING (FILM)

Need to add other courses...

FILM 110 Film Expression3 Credits
Critical examination of the nature and structure of motion picture expression. Concentrates on directors’, editors’, and cinematographers’ use of various storytelling and visual techniques.

FILM 115 Cinema Design Tools3 Credits
Exploration of Digital SLR camera use, raster photo-editing software, and vector drawing software for narrative video production.

FILM 120 Film Script Analysis3 Credits
Study of film scripts by critically focusing on story techniques and analytical methods of summarizing, describing, interpreting, discussing and evaluating story narrative.

FILM 125 Production Drawing & Design3 Credits
Foundational methods of digital drawing to create characters and scenery for filmmaking concept art and previsualization.

FILM 130 Short-Form Screenwriting3 Credits

FILM 135 Cinema Editing Aesthetics3 Credits
Foundations of video editing theory. Find a personal editorial voice by uncovering the building blocks, personal decisions, and practices that make up the craft of narrative editing.

FILM 140 Commercial & Corporate Production3 Credits
Introduction to basic digital single-lens reflex camera cinematography theory and techniques through commercial and corporate collaborative production.

FILM 143 Cinema Lighting3 Credits
Theoretical examination of cinematic lighting techniques for interior, exterior, and location settings. Analyze cinematic lighting examples to plan, design and implement their re-creation.
Terms Typically Offered: Spring.

FILM 145 Commercial & Corporate Video Editing3 Credits
Basic editing, manipulating and delivery of narrative video. Explore non-linear editing techniques including media management, editing tools, titles, motion control, and transitions.

FILM 150 Episodic Screenwriting3 Credits
Practical experience of writing realizable television and web series scripts. Emphasis on workshopping a pilot episode and creating the ancillary materials required to produce and market it.
Terms Typically Offered: Spring.

FILM 155 Commercial Audio Design3 Credits
Principles and application of basic audio recording and mixing principles by enhancing soundtracks for media productions.
Terms Typically Offered: Spring.

FILM 160 Cinema Previsualization3 Credits
Preproduction development in a digital environment. Includes traditional storyboarding and modern techniques using 3D or photo manipulation software.

FILM 165 Cinema Production Design3 Credits
Determination of emotional content of artistic choices in set design, locations, props, wardrobe and makeup through script and character analysis techniques, the research and previsualization process, and color theory.
Terms Typically Offered: Spring.

FILM 170 Short-Form Production4 Credits
Basic techniques and tools of short-form video production. Use narrative visual storytelling components and expressive visual elements.
Terms Typically Offered: Spring.

FILM 175 Short-Form Video Editing3 Credits
Intermediate short-form video editing. Refine workflows and production pipelines, advanced audio integration, transitions, and motion graphics.
Terms Typically Offered: Spring.

FILM 210 Cinema Production Management3 Credits
Processes and techniques of film and television producing. Predict, calculate, and estimate for insurance requirements, unions and guilds. Use basic accounting practices to complete a budget and schedule.
Terms Typically Offered: Fall.

FILM 220 Cinema Audio Design3 Credits
Advanced cinematic audio recording techniques. Practice location recording, Foley, looping/ADR, sound effects layering, synchronization techniques, and surround sound mixing.
Terms Typically Offered: Fall.

FILM 225 Cinema Capstone I3 Credits
First part of a two-semester sequence for the Cinema Capstone. Collaborate with Production Design students during a production's preproduction. Create a production's marketing plan.
Terms Typically Offered: Fall.

FILM 226 Technical Capstone I3 Credits
First part of a two-semester sequence for the Technical Capstone. Collaborate with Writing/Directing students in the preproduction process. Help create a production marketing plan.
Terms Typically Offered: Fall.

FILM 230 Episodic Production4 Credits
Continued collaborative development of advanced learn-by-doing productions. Develop and demonstrate the skills necessary to make effective and successful TV or web series.
Terms Typically Offered: Fall.

FILM 240 Digital Cinematic Effects3 Credits
Digital cinematic effects development in the post-production environment. Analyze style and emotional aesthetic and learn to support story by synthesizing video elements.
Terms Typically Offered: Fall.

FILM 250 Episodic Video Editing3 Credits
Further exploration of advanced digital editing techniques. Edit a final episodic narrative production. Master collaborative workflows, advanced audio production, and special effects.
Terms Typically Offered: Fall.

FILM 260 Freelancing for Creatives3 Credits
Examination of self-employment. Explore networking, financing, basic business law, insurance, intellectual property rights, government regulations, time management, record keeping, taxes, and work-life balance.
Terms Typically Offered: Spring.
FILM 270 Cinema Capstone II 4 Credits
Second part of a two-semester sequence for the Cinema Capstone. Collaborate with Production Design students during shooting, post, and presentation of either a narrative, corporate, or series production.
Prerequisites: FILM 225.
Terms Typically Offered: Spring.

FILM 271 Technical Capstone II 3 Credits
Second part of a two-semester sequence for the Technical Capstone. Collaborate with Writing/Directing students on either a short-form narrative, corporate, or series production.
Prerequisites: FILM 226.
Terms Typically Offered: Spring.
EARLY CHILDHOOD TEACHING -SPECIAL ED (ECSE)

ECSE 320 Learner Development and Individual Differences3 Credits
Exploration of child development and individual differences to respond to the unique and individualized needs of young children with exceptionalities. Field experience required.
Prerequisites: Admission to the Teacher Education Program.

ECSE 410 Building Family and Community Partnerships1 Credit
Introduction to the concept of family systems, the impact of children with diverse needs upon the family system, and the role of the educator in partnering with families and the community.
Prerequisites: Admission into the Teacher Education program.

ECSE 430 Instructional Strategies for Inclusion and Intervention, Birth-8 Years3 Credits
Exploration of evidence-based instructional strategies, focused on communication and sensory processing, to advance learning of young children with exceptionalities.
Prerequisites: EDUC 340, EDUC 374, and ECSE 320.

ECSE 435 Assessment and Evaluation of the Young Child, Birth-8 Years3 Credits
Exploration and application of technically sound formal and informal assessments that minimize bias, and measurement principles and practices to evaluate and guide educational decisions through collaboration with colleagues and families.
Prerequisites: EDUC 340 and ECSE 320.

ECSE 450 Individual Behavior Support and Guidance with Young Learners3 Credits
Exploration of behavioral theories and their application to individual and classroom management of young learners with an emphasis on the principles of applied behavior analysis.
Prerequisites: EDUC 340, EDUC 374, and ECSE 320.

ECSE 499 Teaching Internship and Colloquia: Early Childhood Ages 3 - 5/Pre-K6 Credits
Participation in full-time supervised teaching experience for eight weeks in an inclusive classroom designed to allow the intern the opportunity to apply standards-based education, theories, and philosophies acquired in professional education coursework. Provides support in teaching and learning of Pre-K students, ages 3 - 5.
Prerequisites: All program and degree requirements and courses must be successfully completed.
ECONOMICS (ECON)

ECON 201 Principles of Macroeconomics-GTSS1 3 Credits
Basic concepts of economics. Courses must be taken in sequence and are not open to freshmen.
Essential Learning Categories: Social and Behavioral Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ECON 202 Principles of Microeconomics-GTSS1 3 Credits
Basic concepts of economics. Courses must be taken in sequence and are not open to freshmen.
Essential Learning Categories: Social and Behavioral Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ECON 301 Labor-Management Relations 3 Credits
Organized labor movement, employer labor policies, collective bargaining, wages and wage regulation, social insurance, and public labor policy.
Counts as management course for BBA candidates.
Prerequisites: ECON 201, ECON 202, or equivalent.

ECON 310 Money and Banking 3 Credits
Monetary, credit, and banking systems in the United States. Counts as management course for BBA candidates.
Prerequisites: ECON 201, ECON 202, or equivalent.

ECON 312 Economic History of the United States 3 Credits
Economic development of the United States and the nation’s economic institutions from the colonial period to the present.
Prerequisites: ECON 201, ECON 202 or HIST 131, HIST 132, or permission of instructor.

ECON 320 History of Economic Ideas 3 Credits
Development of economic analysis, thought, theories, and doctrines from the ancient world to recent times.
Prerequisites: ECON 201, ECON 202, or equivalent.

ECON 342 Intermediate Macroeconomic Theory 3 Credits
Factors determining the level and rate of growth of GDP, the inflation rate, and the employment rate. Policies that have been (or may be) used to influence these variables, and empirical evidences on the relationships among variables are also studied.
Prerequisites: ECON 201, ECON 202, or equivalent, or permission of instructor.

ECON 343 Intermediate Microeconomic Theory 3 Credits
Prerequisites: ECON 201, ECON 202, or equivalent, or permission of instructor.

ECON 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ECON 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ECON 401 Economic Organization and Public Policy 3 Credits
Political economy of economic organization and public policy including analysis of the structure/conduct dimensions of industry and government institutions and their effects on resource allocation, income distribution, and economic performance. Antitrust, regulation, and other policies are treated concurrently. Counts as a management course for BBA candidates.
Prerequisites: ECON 201, ECON 202 or equivalent.

ECON 410 Public Sector Economics 3 Credits
Political economy of government finance including analysis of the effects of government revenue and expenditure policies on resource allocation, income distribution, and economic performance. Counts as a management course for BBA candidates.
Prerequisites: ECON 201, ECON 202, or equivalent.

ECON 415 Econometrics 3 Credits
Application of advanced statistical methods to economic and business problems. Includes multiple regression analysis. Sophisticated cross sectional models such as instrumental variable, probit, and tobit. Time series topics such as forecasting, autoregressive models, vector autoregressions, cointegration, and some panel methods.
Prerequisites: CISB 341 and ECON 201.

ECON 420 International Economics 3 Credits
International trade theory and policy such as balance of payments analysis, international investment flows, and the position of the dollar in foreign exchange transactions.
Prerequisites: ECON 201, ECON 202, or equivalent.

ECON 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ECON 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ECON 505 Advanced Econometrics 3 Credits
Application of advanced statistical methods to economic and business problems. Includes multiple regression analysis. Sophisticated cross sectional models such as instrumental variable, probit, and tobit. Time series topics such as forecasting, autoregressive models, vector autoregressions, cointegration, and some panel methods. Demonstration of mastery of material through graduate level projects, writing, and presentations.
Prerequisites: CISB 341 and ECON 201.

ECON 530 Managerial Economics 3 Credits
The focus of this course is the application of economic theory and its tools to everyday business activities. Topics to be covered include the analytical tools of economics, macro and micro economic theory, and factors that influence demand.
EDUCATION (EDUC)

EDUC 100 Introduction to Libraries3 Credits
Provides a general overview of libraries and their roles in schools and the community. The evolving role of libraries will be explored in the context of professional/school settings, different types of libraries, and the evolution of information, access, and distribution in a digital age.

EDUC 101 Information Literacy3 Credits
A theoretical approach to the flow of information and a practical introduction to the skills necessary to navigate information systems. Print and electronic resources; legal, economic, social and public aspects of information resources; strategies for critical evaluation of information resources; library services and resources.

EDUC 115 What It Means To Be An Educator1 Credit
Overview of the teacher education program, profession and what it means to be an educator. Introduction to social, legal, historical, political, theoretical, and philosophical foundations of education. Course time will include school and educational services visitations. Please note: Students must earn a grade of A or B in this class if they desire to be admitted to the Teacher Education program.
Prerequisites: ENGL 111.

EDUC 150 American Education: Past, Present, and Future3 Credits
An honors course that includes an historical view of public and private education; current challenges; demographic, sociological, technological, and economic trends and their effects on education; educational reform; comparative education systems; and future directions for public and private schooling in America.

EDUC 196 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

EDUC 215 Teaching as a Profession1 Credit
Overview of the teacher education program and profession. Introduction to schools, curriculum and instruction, accountability, learning environments, developing professionalism, and theoretical and philosophical foundations of education. Course time will include school and educational services visitations. This is an on-campus course that is web-enhanced, meaning we meet face-to-face each week AND we have a web-based course site (D2L) to support the classroom environment. Please note: Students must earn a grade of A or B in this class if they desire to be admitted to the Teacher Education program.
Prerequisites: EDUC 115.

EDUC 301 Emergent Literacy for Early Childhood3 Credits
Exploration of principles, methods, and materials for teaching young children language and literacy through a play-based integrated curriculum from birth to kindergarten. Survey of current research in emergent language and literacy including language development and acquisition, family and community roles, teaching and learning strategies, literature in the curriculum and ongoing assessment. Includes a minimum of 20 hours of field experience.
Prerequisites: Admission to Teacher Education Program and EDUC 340.

EDUC 311 Creative and Physical Expressions for Children3 Credits
Facilitation of children’s creative and physical expression and problem solving in music, art, drama, games, movement, and dance.
Prerequisites: Admission to the Teacher Education Program.

EDUC 340 Pedagogical and Assessment Knowledge for Teachers: Early Childhood, Birth - 8 years3 Credits
Exploration of age/grade level teaching strategies, motivation principles, informal and formal assessments, planning strategies, and classroom management techniques. Includes a minimum of 20 hours of field experience.
Prerequisites: Admission to the Teacher Education Program or permission of instructor.

EDUC 341 Pedagogy and Assessment: K-6/Elementary3 Credits
Exploration of age/grade level teaching strategies, motivation principles, informal and formal assessments, planning strategies, and classroom management techniques. Includes a minimum of 20 hours of field experience.
Prerequisites: Admission to the Teacher Education Program.
Corequisites: EDUC 343.

EDUC 342 Pedagogy and Assessment: Secondary and K-123 Credits
Exploration of age/grade level teaching strategies, motivation principles, informal and formal assessments, planning strategies, and classroom management techniques. Includes a minimum of 20 hours of field experience.
Prerequisites: Admission to the Teacher Education Program.
Corequisites: EDUC 343.

EDUC 343 Teaching to Diversity3 Credits
Study of differences in student development and approaches to learning. Addresses ethnic, linguistic, gender, sexuality, socioeconomic, ability/disability, and community diversity. Includes a minimum of 20 hours of field experience.
Prerequisites: Admission to the Teacher Education Program.
Corequisites: EDUC 340 or EDUC 341 or EDUC 342.

EDUC 374 Exceptional and English Language Learners in the Inclusive Classroom3 Credits
Study of exceptionalities and English Language Learner (ELL) characteristics. The use of strategies for identifying, adapting, accommodating, and/or modifying the learning environment to meet the various needs. Includes intellectually challenged, learning disabled, social/emotional disorders, physically disabled, gifted, and English language learners.
Prerequisites: EDUC 341 or EDUC 342, and EDUC 343. May be taken concurrently with EDUC 340.

EDUC 378 Technology for K-12 Educators1 Credit
Digital technology’s role in the teaching/learning process. Engaging technology in the classroom. Topics include New Literacies, Web 2.0 tools, e-books, interactive presentation tools, et al.
Prerequisites: Admission to Teacher Education Program.

EDUC 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

EDUC 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

EDUC 440 Methods of Teaching Language and Literacy: EC3 Credits
Survey of current research in early/emergent language and literacy, including language development and acquisition, family and community roles, teaching and learning strategies, literature in the curriculum, and ongoing assessment in instruction. Includes a minimum of 50 hours of field experience.
Prerequisites: Admission to the Teacher Education Program and EDUC 340; may be taken concurrently with EDUC 451.
EDUC 441 Methods of Teaching Language and Literacy: Elementary
3 Credits
Exploration of student literacy development in multiple literacies, with a focus in fluency and comprehension. Study and application of instructional strategies for the reading/writing processes, vocabulary development, spelling development, comprehension strategies, reading and writing workshops, literacy assessment, and integration across the content areas. Field placements will be in a lab school environment for two mornings of school per week. Includes a minimum of 60 hours field experience.
Prerequisites: Admission to the Teacher Education Program, EDUC 340 and/or EDUC 341 and EDUC 343.

EDUC 442 Integrating Literacy Across the Curriculum: Secondary and K-12 Art
3 Credits
Exploration of multiple forms of student literacies. Study and application of instructional strategies for various literary genres across the middle school and high school curriculum with a focus in philosophical and theoretical perspectives from multicultural texts. Candidates develop a fully integrated unit to implement in field study. Includes a minimum of 60 hours of field experience.
Prerequisites: Admission to the Teacher Education Program, EDUC 342, and EDUC 343.
Corequisites: EDUC 497.

EDUC 451 Methods of Teaching Mathematics: Early Childhood/
Elementary
3 Credits
Prepares students to teach mathematics to elementary age students. Focus on major concepts, procedures, and reasoning processes that define number systems and number sense, geometry, measurement, statistics and probability, and algebra. Theoretical and practical approaches support learning about standards, content, delivery, and assessment. Field placements will be in a lab school environment for three afternoons of school per week. Includes a minimum of 60 hours of field experience.
Prerequisites: Admission to the Teacher Education Program, EDUC 340 and/or EDUC 341, EDUC 343, MATH 105, MATH 205, and MATH 301.
Corequisites: EDUC 471.

EDUC 461 Methods of Teaching Science and Social Studies: Early
Childhood/Elementary
3 Credits
Study and application of content standards in science, health, civics, geography, history, and economics for elementary age students. Develops teaching proficiency and an understanding of integration of these subjects across the content areas. Field experiences are incorporated into the math/literacy block during three school days per week.
Prerequisites: Admission to the Teacher Education Program, EDUC 340 and/or EDUC 341, EDUC 343.
Corequisites: EDUC 471.

EDUC 471 Educational Assessment for the K-12 Educator
1 Credit
Current principles of assessment in the K-12 classroom. Includes selecting, developing, and evaluating a variety of assessment methods/types in the various content areas. Discuss how to analyze, interpret, and communicate assessment results with administrators, families, and students for the purposes of making instruction/curricular decisions.
Prerequisites: EDUC 341 or EDUC 342, and EDUC 343.
Corequisites: EDUC 441, EDUC 451, EDUC 461, or permission of instructor.

EDUC 475 Classroom Management for K-12 Educators
1 Credit
Effective classroom management. Establish productive classroom climate. Applications of management techniques to help students become responsible for their behaviors and choices. Student motivation, positive student-teacher relationships, effective partnerships between parents and school. Includes strategies to minimize and prevent classroom and behavior management problems as well as time management techniques.
Prerequisites: EDUC 341 or EDUC 342, EDUC 343, EDUC 441, EDUC 451, and EDUC 461, or permission of instructor.

EDUC 495 Independent Study
1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

EDUC 496 Topics
1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

EDUC 497 Content Methodology Practicum
3 Credits
Theory and practice of differentiated instruction, lesson study design and implementation, and basic concepts of Understanding by Design. Introduction to comprehensive school reform and curriculum design, as well as a focus on the improvement of teaching methodology across the curriculum. Includes a minimum of 80 hours of field experience.
Prerequisites: Admission to the Teacher Education Program, EDUC 342 and EDUC 343, and completion of all content area courses.
Corequisites: EDUC 442 and EDUC 497A/EDUC 497B/EDUC 497C/EDUC 497D/or EDUC 497E as required by degree.
Course may be taken multiple times up to maximum of 15 credit hours.

EDUC 497A Methods of Teaching Secondary English
2 Credits
Theory and practice of teaching English language arts in middle and high schools. Current strategies, programs, materials, and media for the development of curriculum in reading comprehension, language, linguistics, comprehension, and rhetoric. Lesson preparation and presentation required.
Prerequisites: Admission to Teacher Education Program.
Corequisites: EDUC 442 and EDUC 497, or EDUC 342 and EDUC 343. Note: This course is only offered in the fall semester.

EDUC 497B Methods of Teaching Secondary Social Sciences
2 Credits
Theory and practice of teaching history and the social sciences in middle and high schools. Current strategies, programs, materials, and media for the development of curriculum in United States history, world history, government, civics, political science, geography, economics, and behavioral science. Lesson preparation and presentation required.
Prerequisites: Admission to Teacher Education Program.
Corequisites: EDUC 442 and EDUC 497, or EDUC 342 and EDUC 343. Note: This course is only offered in the fall semester.

EDUC 497C Methods of Teaching Secondary Mathematics
2 Credits
Theory and practice of teaching mathematics in middle and high schools. Current strategies, programs, materials, and media for the development of curriculum in arithmetic, basic algebra, functions, graphing, probability, statistics, and integrated math. Lesson preparation and presentation required.
Prerequisites: Admission to the Teacher Education Program.
Corequisites: EDUC 442 and EDUC 497, or EDUC 342 and EDUC 343. Note: This course is only offered in the fall semester.
EDUC 497D Methods of Teaching Secondary Science2 Credits
Theory and practice of teaching science in middle and high schools. Current strategies, programs, materials, and media for the development of curriculum in: scientific methodology, techniques, and history; physical, life, and earth sciences; and science and technology. Lesson preparation and presentation required.
Prerequisites: Admission to Teacher Education Program.
Corequisites: EDUC 442 and EDUC 497, or EDUC 342 and EDUC 343. Note: This course is only offered in the fall semester.

EDUC 497E Methods of Teaching Secondary Spanish2 Credits
Prerequisites: Admission to Teacher Education Program.
Corequisites: EDUC 442 and EDUC 497, or EDUC 342 and EDUC 343. Note: This course is only offered in the fall semester.

EDUC 499A Teaching Internship and Colloquia: K-26 Credits
Full-time supervised teaching experience for eight weeks in an inclusive classroom designed to allow the intern the opportunity to apply standards-based education and theories and philosophies acquired in professional education coursework. Provides support in teaching and learning of K-2 students.
Prerequisites: All program and degree requirements must be successfully completed.

EDUC 499B Teaching Internship and Colloquia: 3-66 Credits
Available for students who are pursuing ECE/ELED licensure and standards-based education: an eight-week experience. Colloquiums are included and required.
Prerequisites: Formal admission to the Teacher Education Program; EDUC 340 and/or EDUC 341, EDUC 343, EDUC 440 and/or EDUC 441, EDUC 451; all other course work for bachelor’s degree completed; 2.75 cumulative GPA as well as 2.75 GPA in major and 2.75 GPA in EDUC classes.

EDUC 499C, EDUC 499D, or EDUC 499E as appropriate for content area major; all other coursework for bachelor's degree completed; 2.8 cumulative GPA as well as 2.8 GPA in major and 2.8 GPA in EDUC classes.

EDUC 499G Teaching Internship and Colloquia: Secondary12 Credits
Full-time (40 hrs min/week) supervised teaching experience designed to allow the intern the opportunity to apply standards-based education and theories and philosophies acquired in professional education coursework. Three required colloquia on Thursday evenings are included during this 15-week experience. Students must begin internship a minimum of one week prior to the beginning of the district school semester, regardless of the Colorado Mesa University start date.
Prerequisites: Formal admission to the Teacher Education Program; EDUC 342, EDUC 343, EDUC 442, EDUC 497, and EDUC 497A, EDUC 497B, EDUC 497C, EDUC 497D, or EDUC 497E as appropriate for content area major; all other course work for bachelor’s degree completed; 2.8 cumulative GPA as well as 2.8 GPA in major and in 2.8 GPA in EDUC classes.
Course may be taken multiple times up to maximum of 15 credit hours.

EDUC 499H Teaching Internship and Colloquia: Secondary for K-126 Credits
Supervised teaching experience at the secondary level for students who are pursuing K-12 licensure and standards-based education. Several colloquia are included in the eight-week experience.
Prerequisites: Formal admission to the Teacher Education Program; EDUC 342, EDUC 343, EDUC 442 (except Music and Kinesiology majors); appropriate content area methods course/s; all other course work for bachelor’s degree completed; 2.75 cumulative GPA as well as 2.75 GPA in major and 2.75 GPA in EDUC classes.
Course may be taken multiple times up to maximum of 15 credit hours.

EDUC 500 Culture and Pedagogy3 Credits
This course centers on Pedagogy that explores the relationships between culture and learning as well as teacher ideology and belief systems. Examines critical pedagogy, pedagogies of resistance, and teaching for social justice.
Prerequisites: Current teaching certificate, acceptance into M.A. program, GRE.

EDUC 501 Educational Technology2 Credits
Historical and conceptual analyses of ways to design, organize, and integrate curricula across subject areas. Review of various instructional design models and fundamental design principles that guide the development of instructional materials. Students will create multimedia materials for incorporation into a final product. Critique of curriculum discourse, process, and product. Teachers’ roles in site-based curriculum and staff development.

EDUC 502 Theory, Design & Assessment of Curriculum3 Credits
Introduction to instructional design; production and evaluation of computer-based instructional materials and software; selection, evaluation, and use of instructional media.
EDUC 503 Introduction to Educational Research and Design3 Credits
An analysis of differing orientations to evaluation and research. Emphasis on assumptions, attitudes, and expectation of what constitutes scientific knowledge and explanation; relationship of research orientation, methods of inquiry theory, and practice in both qualitative and quantitative research strategies.
Prerequisites: Current teaching certificate, acceptance into M.A. program, GRE.

EDUC 504 Methods of Teaching English as a Second Language3 Credits
Theory and practice of teaching English as a second language; techniques for teaching pronunciation, reading and writing in the context of communicative competence; analysis of resources available for ESL.

EDUC 510 ESL Strategies/Content Areas3 Credits
Strategies for assessing and teaching linguistically-diverse students in the content areas. Topics include role-playing, language dynamics, measurement, relevant research, and classroom practice.

EDUC 535 Internship in ESOL: K-63 Credits
This practicum applies theory and research to the analysis and synthesis of field experiences in ESOL. The practicum will be integrated into a concluding research project that structures students' reflections about their growth and vision as a leader. Through exploration of research and practicum methodology students will frame their capstone project proposals leading to final analysis and presentation following.
Prerequisites: Current teaching certificate, acceptance into M.A. program, GRE.

EDUC 541 Exceptional Learners3 Credits
Study of exceptionality and special education, legislation, individualized education programs (IEP), planning and delivering services, multicultural and bilingual aspects of special education, classifications (impairments), exceptionality and the family, 20-hour field experience required.

EDUC 543 Inclusion Methods/Strategies3 Credits
Collaboration, community and families, legal aspects of placement, classroom management, and methods and strategies used in inclusive classrooms. Each student is required to complete a minimum of 20 field experience hours.

EDUC 545 Internship in ESOL: 7-123 Credits
This practicum applies theory and research to the analysis and synthesis of field experiences in ESOL. The practicum will be integrated into a concluding research project that structures students' reflections about their growth and vision as a leader. Through exploration of research and practicum methodology students will frame their capstone project proposals leading to final analysis and presentation following.
Prerequisites: Current teaching certificate, acceptance into M.A. program, GRE.

EDUC 554 Theories of Second Language Acquisition3 Credits
Research on second language acquisition, differences between first and second language acquisition, application of theories to classroom practice.

EDUC 555 Multicultural Narratives/K-123 Credits

EDUC 556 Assessment in English as a Second Language3 Credits
Assessment of linguistically-diverse students, developing instructional plans for linguistically-diverse students, measurement, relevant research, classroom practice, legal and social responsibilities.

EDUC 570 Classroom Management1 Credit
Applications of advanced classroom management techniques to help students become responsible for their behaviors and choices. Includes student motivation, positive student-teach relationships, and effective partnerships between parents and school. Includes strategies to minimize and prevent classroom and behavior management problems, as well as time management techniques.
Prerequisites: EDUC 591 and EDUC 586B.

EDUC 580 Secondary Instructional Methods Across the Curriculum3 Credits
Advanced theory and practice of differentiated instruction, lesson study design and implementation. Advanced curriculum design, teaching methodology across the curriculum.
Prerequisites: EDUC 591 and EDUC 586B.

EDUC 580A Secondary Instructional Methods for English Language Arts2 Credits
Advanced theory and practice of teaching English language arts in middle and high schools. Current strategies programs, materials, and media for the development of curriculum in reading comprehension, language, linguistics, and rhetoric. Lesson preparation and presentation required.
Prerequisites: EDUC 591 and EDUC 586B.

EDUC 580B Secondary Instructional Methods for Social Studies2 Credits
Advanced theory and practice of teaching history and the social sciences in middle and high schools. Current strategies, programs, materials, and media for the development of curriculum in United States history, world history, government, civics, political science, geography, economics, and behavioral science. Lesson preparation and presentation required.
Prerequisites: EDUC 591 and EDUC 586B.

EDUC 580C Secondary Instructional Methods for Mathematics2 Credits
Advanced theory and practice of teaching mathematics in middle and high schools. Current strategies, programs, materials, and media for the development of curriculum in arithmetic, basic algebra, functions, graphing, probability, statistics, and integrated math. Lesson preparation and presentation required.
Prerequisites: EDUC 591 and EDUC 586B.

EDUC 580D Secondary Instructional Methods for Science2 Credits
Advanced theory and practice of teaching science in middle and high schools. Current strategies, programs, materials, and media for the development of curriculum in: scientific methodology, techniques, and history; physical, life, and earth sciences; and science and technology. Lesson preparation and presentation required.
Prerequisites: EDUC 591 and EDUC 586B.

EDUC 580E Secondary Instructional Methods for Spanish2 Credits
Prerequisites: EDUC 591 and EDUC 586B.

EDUC 580F Secondary Instructional Methods for Physical Education3 Credits
Advanced theory and practice of instructional strategies on a practical application level for prospective secondary physical education teachers preparing for entry into student teaching. Current strategies, programs, materials, and media for the development of curriculum in physical education in secondary classrooms. Lesson preparation and presentation required.
Prerequisites: EDUC 591 and EDUC 586B.
Terms Typically Offered: Fall.
EDUC 584 Secondary Literacy Methods Across the Curriculum 3 Credits
Advanced exploration of multiple forms of student literacies. Study and application of reading and comprehension strategies for literacy instruction in middle school and high school content areas. Candidates develop a fully integrated unit to implement in field study. 
Prerequisites: EDUC 586B and EDUC 591.

EDUC 585 Elementary Integrated Science, Social Studies, and Art Theory and Methodology K-63 Credits
Advanced exploration in the study and application of content standards in science, art, civics, geography, history, and economics for elementary age students. Develops teaching proficiency and an understanding of integration of these subjects across the content areas. Field based with online and classroom components.
Prerequisites: EDUC 591 and EDUC 586A.

EDUC 586A Accommodating Diverse and Exceptional Needs K-63 Credits
Designing, developing, implementing and assessing the effectiveness of instruction differentiated for relevant student diversity and exceptionalities; teaming with specialists; current state and federal guidelines and mandates. This course involves a minimum of twelve hours preparation/online interaction per week.
Prerequisites: Admission to ITL program.
Corequisites: EDUC 591.

EDUC 586B Accommodating Diverse and Exceptional Needs 6-123 Credits
Designing, developing, implementing and assessing the effectiveness of instruction differentiated for relevant student diversity and exceptionalities; teaming with specialists; current state and federal guidelines. This course involves a minimum of twelve hours preparation/online interaction per week.
Prerequisites: Admission to ITL Program.
Corequisites: EDUC 591.

EDUC 587 Elementary Reading and Language Arts Theory and Methodology K-63 Credits
Advanced exploration in designing, developing, implementing and assessing well-aligned, well-differentiated, discipline specific curricula, instruction, assessments and accommodations related to developmental, gender, bilingual, special education unique to K-6 Literacy Education. Field based with online and classroom components.
Prerequisites: EDUC 591 and EDUC 586A.

EDUC 588 Elementary Mathematics Theory and Methodology K-63 Credits
Advanced exploration in designing, developing, implementing, and assessing well-aligned, well-differentiated, discipline-specific curriculum, instruction, assessments and accommodations unique to K-6 Math Education. Field based with online and classroom components.
Prerequisites: EDUC 591 and EDUC 586A.

EDUC 591 ITL 1: Foundations of Curriculum, Instruction, and Assessment 9 Credits
Designing cycles of instruction that are well-aligned (with standards and assessments); well-differentiated (for content, the learner and the situation); and support the development of self-directed learning. Course has online and classroom components. This May/June/July course involves a minimum of six hours of preparation/online interaction per day and participation in twelve ten-hour classroom seminars.
Prerequisites: Admission to the ITL program.
Corequisites: EDUC 586A or EDUC 586B.

EDUC 592A ITL Elementary Pre-Internship 4 Credits
Part-time mentored August-December pre-internship placement to develop accuracy, fluency and complexity in the design, implementation and assessment of instruction through observing, assisting, teaming (90%) and lead teaching (10%).
Prerequisites: EDUC 591 and EDUC 586A.

EDUC 592B ITL Secondary Pre-Internship 4 Credits
Part-time mentored August-December pre-internship placement to develop accuracy, fluency and complexity in the design, implementation and assessment of instruction through observing, assisting, teaming (90%) and lead teaching (10%).
Prerequisites: EDUC 591 and EDUC 586A.

EDUC 592C ITL K-12 Physical Education Pre-Internship 4 Credits
Part-time mentored August-December pre-internship placement to develop accuracy, fluency and complexity in the design, implementation and assessment of instruction through observing, assisting, teaming (90%) and lead teaching (10%) in the Physical Education content area.
Prerequisites: EDUC 591 and EDUC 586A.
Terms Typically Offered: Fall.

EDUC 595 Topics in Teaching 0.5-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

EDUC 596 Topics in the Content Areas 0.5-4 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

EDUC 599A ITL 3: Directed Teaching: Elementary Education 12 Credits
Continued full-time mentored January-May placement to develop independent professional competence in instructional design, implementation and assessment, and document having had a positive effect on student learning, across fifteen weeks of full-time independent teaching. Two colloquia are an integral part of the experience requirement.
Prerequisites: EDUC 485, EDUC 487, EDUC 488, EDUC 492A, EDUC 586A, and EDUC 591.

EDUC 599B ITL 3: Directed Teaching: Secondary Education 12 Credits
Continued full-time mentored January-May placement to develop independent professional competence in instructional design, implementation and assessment, and document having had a positive effect on student learning, across fifteen weeks of full-time independent teaching. Two colloquia are an integral part of the experience requirement.
Prerequisites: EDUC 441, EDUC 492B, EDUC 497, EDUC 497A, EDUC 497B, EDUC 497C, or EDUC 497D, EDUC 586B, and EDUC 591.

EDUC 599C ITL 3: Directed Teaching: Physical Education 12 Credits
Continued full-time mentored January-May Physical Education placement to develop independent professional competence in instructional design, implementation and assessment, and document having had a positive effect on student learning, across sixteen weeks of full-time independent teaching consisting of one eight-week elementary placement and one eight-week secondary placement. One colloquium is an integral part of the experience requirement.
Prerequisites: EDUC 580, EDUC 580F, EDUC 584, EDUC 586A, EDUC 592C, and EDUC 591.
Terms Typically Offered: Spring.
EDUCATION - CAREER/TECH (EDUT)

EDUT 250 Career and Technical Education in Colorado
1 Credit
Explores common elements of Career and Technical Education philosophy and current practices. It details the philosophy of Career and Technical Education (CTE), the federal Carl D. Perkins legislation and related guidelines for CTE, the Colorado Technical Act, national and state regulatory agencies, the CCCS program approval process, enrollment management and advising strategies, relevant local and national issues, and quality assurance principles.

EDUT 251 Secondary CTE Capstone
3 Credits
This capstone course in the secondary CTE credentialing sequence offers an in-depth analysis of secondary career and technical student organizations and competitions, the Colorado Technical Act, working with exceptional students, creating and effectively deploying program advisory committees, and an overview of educational and political systems in Colorado. The final project is an analysis of the efficiency with which one's employing school district funds, operates and assesses CTE programs.

EDUT 260 Adult Learning and Teaching
3 Credits
Examines the philosophy of community colleges and/or secondary schools and the roles and responsibilities of the faculty member within the college/school community. Introduces basic instructional theories and applications, with particular emphasis on adult learners. Includes syllabus development, learning goals and outcomes, and lesson plans. Emphasizes teaching to a diverse student body, classroom management, assessment and instructional technology.

EDUT 288 Practicum II
1 Credit
Provides students with the opportunity to supplement coursework with practical work experience related to their educational program. Students work under the immediate supervision of experienced personnel at the education facility and with the direct guidance of the instructor.

EDUT 289 Capstone
1 Credit
Focuses on a demonstrated culmination of learning within a given program of study.
EDUCATION - LEADERSHIP (EDTL)

EDTL 510 Teacher Leadership I 2 Credits
Development of an understanding of the role of instructional leader and change agent in today's PK-12 schools. Development of instructional leader skills and effective instructional knowledge base outlined in the Teacher Leader Model Content Standards. Includes mentoring, coaching, frameworks for effective teaching, engaging students, collegial conversations, constructive feedback systems, Professional Learning Communities.

EDTL 511 Teacher Leadership II 2 Credits
Analysis of typical teaching problems. Examines best practices, action research, and facilitation skills.
Prerequisites: EDTL 510.
Corequisites: EDTL 526.

EDTL 512 Facilitation and Presentation 2 Credits
Teacher Leaders working with teachers to improve student achievement. Explores facilitation of groups, from small teacher teams to the entire school community. Emphasis on equipping leaders with a variety of presentation skills to lead school change.

EDTL 513 Information Based Educational Practice and Statistics 3 Credits
Exploration of standards-based educational practice. Analysis and interpretation of data as they inform educational practice. Data Driven Dialogues implemented as catalyst for educational change. Development of skills necessary to observe, analyze, and evaluate data from a multiple measures perspective. Foundational uses of educational statistics applied.

EDTL 517 Assessment Literacy 1 Credit
Construction, administration and interpretation of formative and summative educational assessments for the systematic analysis of student learning and teaching practice. Validity, reliability and basic statistical analysis, as well as design of rubrics and other scoring approaches included.
Corequisites: EDTL 526.

EDTL 518 Diversity and Differentiated Instruction 2 Credits
Differentiated curriculum, assessment, and instruction, the latest brain research, and a mindset of diversity as a strength. Focuses on different learning populations including, but not limited to, Special Education, ESL, Gifted and Talented, Children of Poverty.

EDTL 525 Internship I 1 Credit
Application of theory and research to the analysis and synthesis of field experiences in leadership. Structured on building and district level initiatives. Includes experiences that increasingly require full management of a project.
Prerequisites: EDTL 510 and EDTL 512.

EDTL 526 Internship II 2 Credits
Application of theory and research to the analysis and synthesis of field experiences in leadership. Structured on building and district level initiatives. Includes experiences that increasingly require full management of a project.
Prerequisites: EDTL 510, EDTL 512, EDTL 513, and EDTL 525.
EDUCATION - SPECIAL ED (EDSE)

EDSE 496 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

EDSE 500 Foundation of Special Education Including Law: 3 Credits
Knowledge and skills needed in special education. An evolving discipline based on philosophies, evidence-based principles and theories, relevant laws and policies, diverse and historical viewpoints, and societal influences on the education and treatment of individuals with exceptional needs.

EDSE 501 Instructional Strategies in Special Education: 3 Credits
Overview of methodologies used in the instruction of students with special learning needs. Explores the purpose of an Individualized Education Program and its use as a guide in the development of a learning plan based on the student’s learning characteristics including strengths, needs, and the impact of disability on his/her learning in the general education classroom.

EDSE 502 Behavioral Interventions for the Learner with Special Needs: 3 Credits
Focuses on research-based assessment and intervention strategies for working with students who present challenging behavior in the classroom.

EDSE 503 Methods of Teaching Students with Mild Disabilities Reading and Math: 3 Credits
Provides an understanding of the nature of reading and arithmetic and of challenges faced by children and adolescents with a wide array of exceptionalities. Major approaches to teaching and learning in reading and math. Development of diagnostic-prescriptive approaches.

EDSE 506 Educating Students with Low Incidence Disabilities in Inclusive Environments: 3 Credits
Examines types of low-incidence disabilities, including mental retardation, autism, physical disabilities, traumatic brain injury, deafness, blindness, multiple disabilities, and other health impairments, that affect academic and job performance. Current methods for teaching individuals with low-incidence disabilities.

EDSE 510 The Learner Who is Twice Exceptional, Including Gifted and Talented: 3 Credits
Provides tools to identify twice exceptional students and selection appropriate strategies so that gifted students with disabilities can learn at appropriate levels.

EDSE 515 Internship K-6 Elementary Practicum in Special Education: 3 Credits
Provides support in teaching and learning of elementary students. Integrated field supervision to achieve professional competencies.

EDSE 520 Internship 6-12 Secondary Practicum in Special Education: 3 Credits
Provides support in teaching and learning of secondary students. Integrated field supervision to achieve professional competencies.

EDSE 596 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
EDUCATION-EARLY CHILD (EDEC)

EDEC 101 Introduction to Early Childhood 3 Credits
Includes the eight key areas of professional knowledge: Child Growth and Development; Health, Nutrition, and Safety; Developmentally Appropriate Practices; Guidance; Family and Community Relationships; Diversity; Professionalism; Administration and Supervision. Overview of history and philosophy. Focuses on ages birth through age 8. Assignments require 3 hours of field experience and may include observation/participation in an early childhood setting.

Fees: Yes.

EDEC 102 Introduction to Early Childhood Professions Lab Experiences 3 Credits
Field experience. Demonstrate knowledge of child growth and development, guidance techniques, planning and implementation of curriculum, assessment techniques and application of laws and standards. Supervised placement provides opportunity to observe, to practice appropriate interactions and to develop effective guidance and nurturing techniques. Addresses ages birth through 8. Assignments include a required field experience of 60 hours.

Prerequisites: EDEC 101.

EDEC 103 Guidance Strategies 3 Credits
Explores guidance theories and techniques, real world applications, goals, and factors influencing expectations, classroom management issues. Techniques for prosocial skills, violence prevention, anger management and providing families with community resources discussed. Focus on birth through age 8. Assignments require 3 hours of field experience and may include observation/participation in an early childhood setting.

EDEC 113 Infant and Toddler Theory and Practice 3 Credits
Introduction to children from birth through age 3. Includes the eight key areas of professional knowledge: Child Growth and Development; Health, Nutrition and Safety; Developmentally Appropriate Practices; Guidance; Family and Community Relationships; Diversity; Professionalism; Administration and Supervision. Overview of history and philosophy of early childhood education. Assignments require 3 hours of field experience and may include observation/participation in an early childhood setting.

EDEC 114 Introduction to Infant/Toddler Lab Techniques 3 Credits
Field experience. Demonstrate knowledge of child growth and development, guidance techniques, planning and implementation of curriculum, assessment techniques, and application of laws and standards. Supervised placement provides opportunity to observe, to practice appropriate interactions and to develop effective guidance and nurturing techniques. Addresses ages birth through age 3 years. Assignments include a required field experience of 60 hours.

Prerequisites: EDEC 101 or EDEC 113.

EDEC 122 Ethics in Early Childhood Education 1 Credit
Practical approach to recognizing, understanding, and resolving issues confronting professionals in education and business. Emphasizes historical development of ethics. Application of critical thinking and decision-making skills to ethical dilemmas in classroom, business, community and governmental settings. Exploration of methods of resolution through ethical reasoning and the National Association for the Education of Young Children (NAEYC) professional codes. Emphasizes logical analysis, critical thinking, and responsible ethical decision making.

EDEC 195 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

EDEC 196 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

EDEC 205 Nutrition, Health, Safety 3 Credits
Focus on nutrition, health, and safety as key factors for optimal growth and development of young children. Includes nutrient knowledge, menu planning, food program participation, health practices, management and safety, appropriate activities, and communication with families. Addresses birth through age 8. Assignments require 3 hours of field experience and may include observation/participation in an early childhood setting.

EDEC 230 Curriculum and Development: Infant/Toddler 3 Credits
Curriculum for the age group birth to 3 years. Emphasis on maintaining healthy, safe environmental activities developmentally appropriate to stimulate language, social emotional, cognitive, and physical development. Assignments require 3 hours of field experience and may include observation/participation in an early childhood setting.

EDEC 237 Theories and Techniques of Social and Emotional Growth 3 Credits
Incorporates student specific techniques and strategies for guiding and enhancing social and emotional growth in children 0-8 years. Introduces and compares the theories underlying quality interactions and patterns of social and emotional progression.

EDEC 238 Early Childhood Development 0-8 Years 3 Credits
Theories, current research and developmental ages and stages of children, conception to 8 years. Emphasizes physical, cognitive, language, social and emotional domains, concept of the whole child and how adults can provide a supportive environment. Assignments require 3 hours of field experience and may include observation/participation in an early childhood setting.

EDEC 240 Curriculum and Development: Early Childhood 3 Credits
Methods of creating and implementing curriculum based on understanding of developmentally appropriate practice for children, birth to age 8. Application of the teaching/learning process, and of managing the learning environment, will draw from research and practical application. Assignments require 3 hours of field experience and may include observation/participation in an early childhood setting.

Prerequisites: EDEC 101 or permission of instructor.

EDEC 241 Early Childhood Administration: Human Relations 3 Credits
Roles and relationships among children, families, early childhood professionals, and community resources. Exploration of family structures, communication skills, roles of support organizations, team building, evaluation tools, self-reflection, and advocacy. Assignments require 3 hours field experience and may include observation/participation in an early childhood setting.

EDEC 250 Exceptionalities in Early Education 3 Credits
Presents an overview of critical elements related to educating young children who may have learning challenges and/or be advanced in the early childhood setting. Topics include the following: typical and atypical development, legal requirements, research based practices related to inclusion, teaming and collaboration, and accommodations and adaptations. Student will learn how different cognitive/social/physical abilities impact a young child's learning process. Includes conception to age 8. Assignments require 3 hours of field experience and may include observation/participation in an early childhood setting.

Prerequisites: EDEC 101 or permission of instructor.
EDEC 256 Working with Parents, Families, and Community Systems
3 Credits
Exploration of personal attitudes regarding families, family values systems, and how personal attitudes affect parent-professional partnerships in the early childhood education program. This course covers communication, problem-solving, and conflict resolution strategies with respect to children ages birth through 8 years. Effective activities and resources to support family involvement in the classroom will be created.

EDEC 264 Administration in Early Education
3 Credits
Overview of management concepts applicable in a variety of early education settings. Focuses on management of programs and personnel, program and staff development, fiscal administration, and evaluation. Assignments require 3 hours field experience and may include observation/participation in an early childhood setting.

EDEC 290 Early Literacy for the Young Child
2 Credits
In-depth view of early literacy development in a changing, diverse society. Intended for the prospective early childhood teacher. Includes research about the language and literacy of young children. Explores how learners develop the ability to communicate and interact from birth to age 8. Assignments require 3 hours field experience and may include observation/participation in an early childhood setting.

EDEC 296 Topics
1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

EDEC 297 Practicum
1-2 Credits
Supervised experience working with children and families in early care and education settings. Accepted by the State Department of Child Care Services for licensing purposes. Scheduling is flexible.
Prerequisites: Permission of instructor.
Course may be taken multiple times up to maximum of 15 credit hours.

EDEC 299 Student Teaching in Early Education
3 Credits
Supervised teaching experience. Allows the student teacher the opportunity to apply developmentally appropriate, standards-based practices, theories and philosophies acquired in prior coursework. Provides incremental responsibility for teaching, supervision, and guidance of young children birth to 8 years. 300 field experience hours in an approved child care facility or school.
Prerequisites: EDEC 101, EDEC 122, EDEC 240, EDEC 250, and permission of instructor.
Course may be taken multiple times up to maximum of 6 credit hours.
EDUCATIONAL LEADERSHIP (EDLD)

EDLD 504 Best Practices in Curriculum, Assessment, Instruction 3 Credits
This class will focus on the best practices effective schools use in the areas of curriculum, assessment, and instruction. The alignment of these three areas is critical to the development and sustainability of an effective standards-based educational system that is equitable for all learners. Major topics include curriculum mapping, assessment for and of learning, quality assessment techniques, instructional strategies aligned to curriculum taught and monitored, and effective interventions and differentiated instructional practices.

Prerequisites: Current teaching certificate, acceptance into EDLD program.

EDLD 505 Reform and Organizational Change in Education 2 Credits
Social and political assumptions underlying current efforts towards curriculum and instructional reform in elementary and secondary schools. Study of planning and evaluation in schools and school districts including strategic planning, effectiveness and curriculum audits, facility planning, and program planning and evaluation.

Prerequisites: Current teaching certificate, acceptance into EDLD program.

EDLD 515 Dynamic School Leadership in a Democratic Society: Introduction to School Administration 2 Credits
Study of the nature of educational leadership, administration, and management with reference to current practice at the school building level. Attention will be given to administrative theory and practice, philosophy, and organizational development. Through the examination of leadership, organizational and change models, students will learn how to analyze their school or district using political, structural, human resources and cultural frames.

Prerequisites: Current teaching certificate, acceptance into EDLD program.

EDLD 520A Principalship I 2 Credits
This introductory course will engage students in developing a comprehensive understanding of the role of the principal as instructional leader and change agent in today's PK-12 schools. Students will be introduced to the skill set needed to be an effective instructional leader and the knowledge base outlined in the Colorado Standards for the licensure of school principals. The historical role of the school principal will be compared and contrasted with the current demands of the modern school principal.

Prerequisites: Current teaching certificate, acceptance into EDLD program.

EDLD 520B Principalship II 2 Credits
This introductory course will engage students in developing a comprehensive understanding of the role of the principal as instructional leader and change agent in today's PK-12 schools. Students will be introduced to the skill set needed to be an effective instructional leader and the knowledge base outlined in the Colorado Standards for the licensure of school principals. The historical role of the school principal will be compared and contrasted with the current demands of the modern school principal.

Prerequisites: Current teaching certificate, acceptance into EDLD program, EDLD 520A.

EDLD 530 Legal Aspects of School Administration: Educational Policy and the Law 2 Credits
Study of the relationship between politics, policy and governance of schools, including political systems, inter-governmental relations, power and conflict, and policy development regarding equity, quality and efficiency. While statutory and case law serve as the reference points for study and discussion, the primary objective is to gain an understanding of the relationship between the legal issues of education and the implications for administrative leadership.

Prerequisites: Current teaching certificate, acceptance into EDLD program.

EDLD 531 School Finance and Budgeting 1 Credit
This course focuses on the role of leaders as orchestrators of business operations of the school and the guardian of business decisions that maximize instructional effectiveness and achievement of organizational goals. Advanced study of the financial structure of public schools, including equity issues, taxation, revenue generation (grants) and budget development.

Prerequisites: Current teaching certificate, acceptance into EDLD program.

EDLD 535 Internship in Educational Leadership 11 Credit
Gain knowledge and experience in varied aspects of school administration. Engagement in activities developed to develop and demonstrate leadership competencies essential for solving school problems, improving curriculum and instructional practices, and increasing student achievement. Leadership competencies align to state and national standards.

Prerequisites: EDLD 520A, current teaching certificate, and acceptance into graduate program.

EDLD 540 School Improvement and Accountability 2 Credits
Construction, administration and interpretation of educational assessments for the systematic analysis of student learning and teaching practice. Emphasis on the use and understanding of data analysis to improve teaching and learning in the classroom. Statistical analysis relating to education leadership decision-making applications.

Prerequisites: Current teaching certificate, acceptance into the EDLD program.

EDLD 542 Instructional Supervision and Management/HR3 Credits
Study of effective human resources management, including recruitment, selection, induction, staff development, employee assistance, evaluation, contract negotiation and personnel management. The skills of conflict resolution and collaboration will be explored as well as ways to assess the learning organization needs.

Prerequisites: Current teaching certificate, acceptance into M.A. program, GRE.

EDLD 544 Strategies in School Improvement 2 Credits
This course focuses on strategies that lead to school improvement, and ultimately continuous student success. High Performing Schools use strategies that are intentional and well designed. They operate in a learning culture that is dedicated to learning for all. This course will enable the student to analyze the culture of high performing schools and engage in problem solving protocols related to improvement in their own settings.

Prerequisites: Current teaching certificate, acceptance into EDLD program.
EDLD 545 Internship in Educational Leadership II 1 Credit
Gain knowledge and experience in varied aspects of school administration. Engagement in activities designed to develop and demonstrate leadership competencies essential for solving school problems, improving curriculum and instructional practices, and increasing student achievement. Leadership competencies align to state and national standards.
**Prerequisites:** EDLD 520A, current teaching certificate, and acceptance into graduate program.

EDLD 595 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.
ELECTRIC LINEMAN 

ELCL 120 Fundamentals of Electricity4 Credits
Generation, transmission, and distribution of electricity beginning with the electron and its function of transporting electric power to homes and industry.

ELCL 125 Job Training and Safety2 Credits
Covers first aid, CDL, basic use and care of personal protective equipment use and care of climbing equipment, daily inspection and basic use of motorized equipment.

ELCL 131 Electrical Distribution Theory I4 Credits
Pole setting techniques, framing methods and specifications, climbing, sagging and splicing of conductors, energizing and de-energizing of lines, and installation of protective grounds.

ELCL 131L Electric Distribution Lab4 Credits
Examination of the National Electric Safety Code, equipment operation, material records, knot tying, installation of protective grounds, pole climbing, replace insulators, replacing crossarms, conductor ties, and overhead line construction.

ELCL 132 Electrical Distribution Theory II4 Credits
Installation and operation of protective equipment, transformer hookups, voltage regulation, hotstick maintenance, troubleshooting, and gloving from the pole. Four hours lecture, three hours laboratory per week.
Prerequisites: ELCL 131.
Corequisites: ELCL 132L.

ELCL 132L Electrical Distribution Theory II Laboratory2 Credits
Lab component required for ELCL 132.
Prerequisites: ELCL 131.
Corequisites: ELCL 132.

ELCL 137 Advanced Electrical Distribution2 Credits
Meter safety, connector installation, street lighting, rubber cover up, and public relations. Two hours lecture, eight hours laboratory per week.
Corequisites: ELCL 137L.

ELCL 137L Advanced Electrical Distribution Laboratory4 Credits
Lab component required for ELCL 137.
Corequisites: ELCL 137.

ELCL 140 Underground Procedures4 Credits
Safety practices, terminology, fault finding, cable locating, switching procedure, installation of terminal devices, splicing, and transformer application. Five hours lecture, four hours laboratory per week.
Corequisites: ELCL 140L.

ELCL 140L Underground Procedures Laboratory2 Credits
Lab component required for ELCL 140.
Corequisites: ELCL 140.

ELCL 145 Hot Line Procedures1 Credit
Two weeks of training by outside specialists covering current hotline maintenance and underground installation methods. Eight hours lecture, twenty-four hours laboratory per week.
Corequisites: ELCL 145L.

ELCL 145L Hot Line Procedures Laboratory2 Credits
Lab component required for ELCL 145.
Corequisites: ELCL 145.

ELCL 195 Independent Study1 or 2 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ELCL 196 Topics1 or 2 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ELCL 199 Internship6 Credits
Opportunity for an individual to be employed for training by a utility company while maintaining his/her status as a Colorado Mesa University student. Provides excellent on-the-job training benefits. Students usually selected for this course by formal interview.
Prerequisites: consent of instructor. Eighteen hours per week, two semesters after completion of regular program.
Course may be taken multiple times up to maximum of 15 credit hours.
ELCE 100 Electrical Construction4 Credits
Tactics to plan electrical system installations from blueprints to the completed job and preparation of material lists, job sheets, and time schedules for various phases of construction. The course emphasizes the National Electrical Code.

ELCE 102 Electrical Blueprint Reading4 Credits
Development of skills needed to interpret electrical drawings properly. Critical for anyone involved in the design, construction, or maintenance of electrical systems.

ELCE 110 House Wiring4 Credits
Approaches to residential building wiring in conformance with the current National Electrical Code and local codes using non-metallic cable. 
Prerequisites: ELCE 100.

ELCE 120 Commercial Wiring4 Credits
Approaches to commercial and industrial building wiring in conformance with the current National Electrical Code and local codes using electric metallic tubing and other raceways.
Prerequisites: ELCE 110.

ELCE 124 Electrical Safety1 Credit
Exploration of OSHA’s electrical safety-related work practices, and how they are applied to the work environment.

ELCE 125 Electrical Principles and Applied Calculations4 Credits
Exploration of the fundamental principles of electrical calculations and operations, as well as practical applications of various concepts.

ELCE 130 National Electrical Code I4 Credits
Exploration of the National Electrical Code and local code requirements for electrical installations. Chapters one through four of the National Electrical Code are covered.

ELCE 135 National Electrical Code II4 Credits
Further development of material from ELCE 130 and covering chapters five through nine of the National Electrical Code, including hazardous locations, special occupancies, conditions, and equipment.
Prerequisites: ELCE 130.

ELCE 144 Grounding And Bonding1 Credit
Exploration of technology and techniques available for code and standards-compliant grounding and bonding systems, focusing on grounding and bonding requirements as they relate to Article 250 and other articles of the NEC code.

ELCE 150 DC Circuit Fundamentals4 Credits
Introduction to the principles of DC electricity and magnetism with emphasis on Ohm’s, Kirchoff’s, and Watt’s laws to analyze circuit voltage, current, and power. Addresses common measuring instruments and safety.

ELCE 155 AC Circuit Fundamentals4 Credits
Exploration of AC circuits including: resistance, current, voltage, computations of series and parallel circuits, circuit analysis, magnetism, inductive and capacitive circuits and troubleshooting with basic test equipment.

ELCE 167 Electrical Maintenance4 Credits
Introduction to common electrical repairs, electrical systems, tools and test equipment. Includes replacing or repairing devices, such as receptacles, light fixtures and ballasts, circuit breakers, fuses, and switches. Addresses electrical safety and code applications.

ELCE 169 Electrical Code Calculations4 Credits
Exploration of calculations used in the application of the National Electrical Code, emphasizing sizing of branch circuit and feeder conductors and calculating ratings of protective devices.
Prerequisites: ELCE 130 and ELCE 135.

ELCE 215 Advanced Code Calculations4 Credits
Exploration of calculations for sizing conductors, conduits, fittings, protective devices, relays related to branch circuits, feeders for motor loads, transformers and power factor correction calculations.
Prerequisites: ELCE 169.

ELCE 220 Industrial Controls4 Credits
Application of electrical and electromechanical sensing/control devices including heating, ventilating, and air conditioning applications, motor control, conveyor drives, and other industrial applications. Students design control systems to meet assigned conditions, use principles of relay logic to prepare correct ladder diagrams and wire up, test, and troubleshoot their systems. Course stresses accuracy, safety, and National Electric Code requirements.

ELCE 225 Introduction to PLCs4 Credits
Development of the ability to read, interpret, and analyze electrical ladder drawings. Acquaints the student with the basic electromechanical components commonly used in electrical control circuits, as well as solid-state relays and the role of programmable controllers.

ELCE 229 AC/DC Variable Speed Drive2 Credits
Introduction to variable speed drive technology that offers a cost-effective method to match driver speed to load demands. Represents a state-of-the-art opportunity to reduce operating costs and improve overall productivity. Focuses on variable speed drive technology including operation, set-up, troubleshooting, maintenance, proper selection, and application for drives, as well as basic drive overview and comparison.

ELCE 263 Specific Wiring for Structured Cabling Systems2 Credits
Development of ability to wire for specifications and for structured cabling systems. Examines the job layout, products used, and execution of the project.
EMERGENCY MANAGEMENT (EMDP)

EMDP 211 Introduction to Emergency Management 3 Credits
Introduction to the complex and evolving field of emergency management. Understanding of key stakeholders, principles, and activities involved in an all-hazards, all-phases approach to dealing with disasters developed.
Prerequisites: Permission of instructor.

EMDP 295 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

EMDP 321 Hazard Preparedness and Mitigation 3 Credits
Examination of methods and application of practices in preparing for and mitigating against hazards. Includes developing an understanding of risk and vulnerability, and their relationship with public policy and implementation actions relevant to hazard preparedness and mitigation.
Prerequisites: EMDP 211.

EMDP 331 Disaster Response and Recovery 3 Credits
Examination of practices and principles that promote effective disaster response and recovery operations. Review of popular myths and realities regarding human behavior in catastrophic events in addition to divergent approaches for disaster management. Includes developing an understanding of the Incident Command System, National Incident Management System, and emergency operations centers.
Prerequisites: EMDP 211.
EMERGENCY MEDICAL TECH (EMTS)

EMTS 101 Emergency Medical Technician - Basic I3 Credits
Policies, rules and regulations of emergency medical services. Basic anatomy and physiology. Initial and focused assessment of patient in the field.
Corequisites: EMTS 102 and EMTS 103.

EMTS 102 Emergency Medical Technician - Basic II3 Credits
Management of respiratory, cardiac, CNS, endocrine, behavioral, drug, alcohol, allergy and anaphylaxis emergencies. Airway management, CPR, AED and basic pharmacology.
Corequisites: EMTS 101 and EMTS 103.

EMTS 103 Emergency Medical Technician - Basic III4 Credits
Management of MOI, head, spinal, abdominal, chest and extremity trauma. Basic management of pediatric, gynecologic, and geriatric emergencies. EMT safety, environmental emergencies, hazzmat, triage, and incident command. Preparation for national registry written and practical examination.
Corequisites: EMTS 101 and EMTS 102.

EMTS 115 Emergency Medical Responder3 Credits
This course covers the knowledge and skills to provide emergency care for most medical emergencies. Emergency Medical Responders provide immediate care as part of the EMS system while awaiting additional EMS response and transportation. This course meets the requirements to become nationally certified as an NREMT - National Registered Emergency Medical Responder.

EMTS 130 Emergency Medical Technician - Basic IV Therapy2 Credits
Focuses on cognitive and skill practice as required by Colorado Prehospital Care program for EMT-Basic level IV approval. Examines criteria, procedures and techniques for IV therapy, discusses fluid and electrolyte balance and principles and treatment for shock.

EMTS 190 Emergency Medical Technician - Basic EKG Interpretation2 Credits
Interpretation of EKG strips, anatomy and physiology of the heart, using three-lead monitoring as a guide. Introduction to twelve-lead EKG.

EMTS 196 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

EMTS 225 Fundamentals of Paramedic Practice3 Credits
First course of the National Standard Paramedic Curriculum as approved by the Colorado State Department of Health and Environment.
Corequisites: EMTS 225L.

EMTS 225L Fundamentals of Paramedic Practice Laboratory2 Credits
Hands-on application of patient assessment, IV therapy and EKG interpretation. Practical application and mastery of anatomy and physiology principles within a pre-hospital setting will be developed.
Prerequisites: Permission of instructor.
Corequisites: EMTS 225.

EMTS 227 Paramedic Special Considerations3 Credits
Focuses on a comprehensive study of Advanced Life Support Practice.
Corequisites: EMTS 227L.

EMTS 227L Paramedic Special Considerations Laboratory2 Credits
Hands-on application of skills in pediatric assessment, delivery and management of the newborn, the mother, and geriatric patients. Management of live scenarios simulating patients with special considerations and needs will enhance the development of practical patient care skills and improve patient outcomes. Certification in PEPP and PALS will be completed.
Prerequisites: EMTS 225/EMTS 225L and Permission of instructor.
Corequisites: EMTS 227.

EMTS 229 Paramedic Pharmacology3 Credits
Focuses on a comprehensive study of emergency pharmacology and medications used to treat common illnesses.
Corequisites: EMTS 229.

EMTS 229L Paramedic Pharmacology Laboratory1 Credit
Hands-on administration of medications with an advanced level of understanding of their effects to the human body. The principles of pharmacokinetics and pharmacodynamics are investigated.
Prerequisites: EMTS 225/EMTS 225L and Permission of instructor.
Corequisites: EMTS 229.

EMTS 231 Paramedic Cardiology5 Credits
Cardiology topics as presented in the National Standard Curriculum for paramedics.
Corequisites: EMTS 231L.

EMTS 231L Paramedic Cardiology Laboratory1 Credit
Hands-on application of principles of cardiac care for the pre-hospital and in-hospital environment. Students will earn their ACLS certification.
Prerequisites: EMTS 225/EMTS 225L and Permission of instructor.
Corequisites: EMTS 231.

EMTS 233 Paramedic Medical Emergencies4 Credits
A comprehensive study of adult medical emergencies.
Corequisites: EMTS 233L.

EMTS 233L Paramedic Medical Emergencies Laboratory1 Credit
Hands-on application of the principles of endocrine emergencies, BG analysis, respiratory emergencies, and other medical emergencies for the pre-hospital and in-hospital environment. Students will receive AMLS certification.
Prerequisites: EMTS 225/EMTS 225L and Permission of instructor.
Corequisites: EMTS 233.

EMTS 235 Paramedic Trauma Emergencies4 Credits
A comprehensive study of adult and pediatric trauma emergencies.
Prerequisites: EMTS 225/EMTS 225L and Permission of instructor.
Corequisites: EMTS 235L.

EMTS 235L Paramedic Trauma Emergencies Laboratory1 Credit
Hands-on application of the principles to manage and assess the trauma patient in pre-hospital emergencies. Approaches on how to handle the patient with blast injuries and disaster management of multiple patients will be developed. Specific scenarios with various acute trauma emergencies will be developed to assist the student with patient assessment skills.
Prerequisites: EMTS 225/EMTS 225L and Permission of instructor.
Corequisites: EMTS 235.

EMTS 237 Paramedic Internship Preparation2 Credits
Reviews concepts and techniques used in the prehospital setting.
Prerequisites: EMTS 225/EMTS 225L, EMTS 227/EMTS 227L, EMTS 229/EMTS 229L, EMTS 231/EMTS 231L, EMTS 233/EMTS 233L, and EMTS 235/EMTS 235L.
EMTS 280 Paramedic Internship I (6 Credits)
The preceptor/internship program for paramedic students.
Prerequisites: EMTS 237.

EMTS 281 Paramedic Internship II (6 Credits)
Continuation of EMTS 280, preceptor program for paramedic students.
Prerequisites: EMTS 280.


ENERGY MANAGEMENT (EMGT)

EMGT 101 Energy Management Fundamentals 3 Credits
Introduction to basic concepts of energy management.

EMGT 196 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

EMGT 201 Land Management Fundamentals 3 Credits
Introduction to basic concepts of land management and practices.

EMGT 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

EMGT 340 Energy Industry Fundamentals 3 Credits
Provides energy literacy through a survey of the sources, distribution and uses of energy, including the evolution of energy from wood fires to coal to oil to the current mix of coal, oil, natural gas, nuclear, hydroelectric, wind, geothermal, biomass, solar and ocean currents and tides. Future energy policy, sources, uses and case studies will be discussed as well as alternative energy sources.
Prerequisites: GEOL 111/GEOL 111L, and CHEM 121/CHEM 121L.

EMGT 350 Energy Development, Transportation, and Markets 3 Credits
Overview of the energy industry domestic and worldwide. Basic energy industry drilling and production terminology, concepts and terms introduced and utilized throughout the course. Issues surrounding business models, upstream, midstream and downstream discussed in detail.
Prerequisites: GEOL 111/GEOL 111L, and FINA 301.

EMGT 355 Landman Geo-Petro-Engineering 3 Credits
Petroleum engineering fundamentals. Properties of reservoir rock, single phase fluid flow through porous media, surface forces, fluid saturation, and completion technology. Evaluation of petroleum reservoir field data.
Prerequisites: EMGT 101 and EMGT 201.

EMGT 360 Real Property, Oil and Gas Law 3 Credits
The body of case law surrounding oil and gas leases and leasehold interests, mineral titles, concurrent ownership and split estates, and governmental regulation of mineral development, including pooling and unitization of oil and gas leases.
Prerequisites: EMGT 340.

EMGT 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

EMGT 410 Energy Regulation and Compliance 3 Credits
The body of law surrounding governmental regulation of mineral development, including environmental liability, diligent and prudent operations, contractual risk allocation, and regulatory case studies.
Prerequisites: EMGT 340.

EMGT 440 Energy Land Practices I 3 Credits
Overview of the supply and demand for energy. The physical path of energy from source to user, transportation issues pertaining to energy, energy pricing methodologies, energy markets, and risk control through the use of derivatives in the energy industry.
Prerequisites: EMGT 340 and FINA 301.

EMGT 450 Energy Land Practices II 3 Credits
Imparts mastery of the fundamental concepts and terminology related to real property law. Application of concepts to situations occurring in the energy environment as land is found, purchased and developed for use.
Prerequisites: EMGT 340.

EMGT 494 Energy Senior Seminar 3 Credits
Legal, economic, environmental, and national security issues surrounding the energy industry. Alternative energy sources and other current issues in energy management.
Prerequisites: EMGT 340.

EMGT 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

EMGT 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

EMGT 499 Internship 1-9 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
ENGR 101 Introduction to Engineering 1 Credit
Facets of engineering. Includes history of the profession, mechanical engineering and mechanical technology curriculum, industries in which engineers practice, and expectations and tools for academic success. Introduces engineering tools used in later courses. Hands-on experiences, visiting industry, oral presentations, meeting faculty and practicing professions.

ENGR 125 Computer-Aided Design and Fabrication 3 Credits
Introduces engineering design graphics. Includes learning a contemporary computer-aided design (CAD) software application and relevant engineering graphics concepts, such as orthographic projection, sections, engineering drawing practices, geometric dimensioning and tolerancing, and an introduction to manufacturing methods. Entails a final design project using rapid prototyping.

ENGR 140 First-Year Engineering Project 3 Credits
Provides first-year engineering students with the opportunity to apply mathematic and scientific skills in interdisciplinary engineering projects. Students work in teams to design and build engineering projects under the guidance of engineering faculty. Prototype projects are exhibited at an end-of-semester design expo.
Prerequisites: MATH 119 or higher.

ENGR 196 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ENGR 224 Materials Science 2 Credits
Structure, properties, and processing of metallic, polymeric, ceramic, and composite materials. Perfect and imperfect solids; phase equilibria; transformation kinetics; mechanical behavior; material degradation. Approach incorporates both materials science and materials engineering components.
Prerequisites: CHEM 151/CHEM 151L and PHYS 131/PHYS 131L.
Corequisites: ENGR 224L.

ENGR 224L Materials Science Laboratory 1 Credit
Lab component for ENGR 224.
Prerequisites: CHEM 151/CHEM 151L and PHYS 131/PHYS 131L.
Corequisites: ENGR 224.

ENGR 225 Introduction to Manufacturing 3 Credits
Principles, processes, and problems associated with the conversion of engineered materials into useful goods. Fundamentals of geometric specification, casting, machining, plastic deformation, bulk deformation, joining processes, and additive processes for metals, plastics, ceramics, and composites.
Prerequisites: ENGR 224.
Fees: Yes.

ENGR 261 Statics and Structures 3 Credits
Covers statics of particles, equivalent force systems, rigid bodies, equilibrium of rigid bodies in two and three dimensions, analysis of truss and frame structures, uniaxially-loaded members, deformation and stress, distributed force systems, friction. Lectures and homework assignments involve computer work and hands-on laboratory work documented by written reports.
Prerequisites: MATH 136 or MATH 152, and PHYS 131/PHYS 131L.

ENGR 263 Mechanics of Solids 3 Credits
Covers shear force and bending moment, torsion, stresses in beams, deflection of beams, matrix analysis of frame structures, analysis of stress and strain in 2-D and 3-D (field equations, transformations), energy methods, stress concentrations, and columns. Lectures and homework assignments involve computer work and hands-on laboratory work documented by written reports.
Prerequisites: ENGR 261.

ENGR 305 Engineering Economics & Ethics 2 Credits
Applications of economics, statistics, and ethics for mechanical engineers. Topics include cost concepts and design economics, money-time relationships, and comparison of alternatives. Engineering ethics includes personal vs. professional ethics, ethical problem-solving techniques, rights and responsibilities of engineers, and whistle-blowing.
Prerequisites: ENGR 101, ENGR 140, and MATH 119, MATH 135, or MATH 151.

ENGR 312 Engineering Thermodynamics 3 Credits
An introductory course in thermodynamics, the science of heat energy conversion. Develops understanding of energy, heat, work, efficiency, and ideal thermodynamic cycles. Teaches first and second laws of thermodynamics and perfect gas law.
Prerequisites: MATH 136 or MATH 152, and PHYS 131/PHYS 131L.

ENGR 317 Fundamentals of Circuits and Electronics 2 Credits
Introduction to resistive circuits, capacitors, inductors, transient analysis, sine waves, AC circuit analysis, resonance, and transformers.
Prerequisites: MATH 136 or MATH 152, and PHYS 131/PHYS 131L.
Corequisites: ENGR 317L.

ENGR 317L Fundamentals of Circuits and Electronics Laboratory 1 Credit
Lab component required for ENGR 317.
Prerequisites: MATH 136 or MATH 152, and PHYS 131/PHYS 131L.
Corequisites: ENGR 317.

ENGR 321 Fluid Mechanics 3 Credits
Covers fluid properties, laws of fluid statics and fluid dynamics, measurement of flow, viscous flow, laminar and turbulent flow, flow in ducts, forces due to fluid motion, and fluid machinery.
Prerequisites: MATH 152 or MATH 136, and PHYS 131/PHYS 131L.

ENGR 325 Component Design 3 Credits
Knowledge and skills developed in preceding courses are extended and applied to design and selection of machine elements and machines. Attention is given to functional requirements, methods of manufacture, choice of materials and economic factors.
Prerequisites: ENGR 224 and ENGR 263.

ENGR 336 Heat and Power 3 Credits
Discussion of major modes of heat transfer. Includes steady and transient conduction, internal and external convection, and radiation with emphasis on industrial applications. Heat exchanger and boiler analysis and related codes and standards discussed.
Prerequisites: ENGR 312 and ENGR 321.

ENGR 343 Dynamics 3 Credits
Kinematics of particles and rigid bodies. Kinetics of particles and rigid bodies in plane motion, including Newton’s second law, work and energy, impulse and momentum.
Prerequisites: ENGR 261.
ENGR 345 Engineering Integration I3 Credits
First course in a design sequence integrating concepts from the mechanical engineering technology curriculum. Emphasis on laboratory experience and the design, analysis, and testing of mechanical systems. Team project work on "design-and-build" projects will require manufacture of mechanical systems and/or electronic circuits.
Prerequisites: ENGR 224, ENGR 263, MAMT 106, and CSCI 130.

ENGR 353 Exploring Entrepreneur Opportunities3 Credits
Introduction to innovation and opportunity recognition, including development of business ideas, business model validation and business feasibility analysis.

ENGR 385 Engineering Integration II3 Credits
Second course in a design sequence integrating concepts from the mechanical engineering technology curriculum. Emphasis on laboratory experience and the design, analysis, and testing of mechanical systems. Team project work on "design-and-build" projects will require manufacture of mechanical systems and/or electronic circuits.
Prerequisites: ENGR 345.

ENGR 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ENGR 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ENGR 397 Structured Research1-3 Credits
ENGR 399 Internship1-12 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ENGR 401 Professional Seminar1 Credit
Preparation for a career in the engineering profession. Topics in professionalism, ethics, resume building, innovation, internships, and current engineering issues explored.
Prerequisites: Junior standing or higher.

ENGR 425 Advanced Manufacturing3 Credits
Use of cutting edge materials and emerging capabilities that utilize the coordination of information, automation, computation, software, sensing and networking. Includes discussion of product data management, flexible manufacturing, manufacturability, and product life-cycle management.
Prerequisites: ENGR 225, ENGR 305, and STAT 305.

ENGR 426 Manufacturing Processes and Systems3 Credits
A senior level course that examines widely used manufacturing processes for metals, polymers, microelectronics and also exposes students to principles and practices of world class manufacturing. Lecture topics include material properties; engineering materials; casting, molding and related processes; metal forming and sheet metal working; material removal processes; joining and assembly processes; electronics manufacturing technology; and principles and practices of world class manufacturing. Manufacturing economic considerations. Influence of product design on process selection.
Prerequisites: ENGR 224 and STAT 200.

ENGR 427 Engineering Measurements2 Credits
Methods of experimentation and data analysis. Specific skills used in planning an experiment, applying sound procedures, keeping proper records, and communicating results orally, with posters and in written reports developed.
Prerequisites: ENGR 263, ENGR 317, STAT 305, and ENGL 325.

ENGR 435 Industrial Controls3 Credits
Fundamentals of control of manufacturing processes. Applications of relay logic, input/output devices, and programmable logic controllers (PLC). Design of complete control circuits, selection of components, and cost estimation. PLC programming for discrete event control and for analog applications.
Prerequisites: ENGR 317.

ENGR 436 Fluid & Electric Power Systems3 Credits
A mechanical approach to industrial power systems. Applications emphasize the selection and function of hardware and interfacing of hydraulic, pneumatic and electric systems with mechanical, fluidic and electrical/electronic controls. Topics covered include transformers, motors, generators, motor controls, and protective devices.
Prerequisites: ENGR 321 and ENGR 435.

ENGR 445 MET Design Project I3 Credits
The first of a two-course comprehensive group capstone design experience, focusing on the design proposal. This sequence applies material from prior course work, along with concepts of project management, problem definition; determining design requirements, design optimization, engineering analysis, proof-of-concept prototype, CAD drawings. Students make several oral design reviews, a final design presentation, and prepare a written report.
Prerequisites: ENGR 140, ENGR 312, ENGR 321, ENGR 325, MAMT 115, and ENGL 325.

ENGR 446 Writing for Design Projects1 Credit
Communication of professional writing to the technical and non-technical audience. Skills are developed to analyze rhetorical situations and compose documents that achieve a specific purpose and meet the needs of a particular audience. Writing with clarity, conciseness and correctness will be emphasized.
Corequisites: ENGR 485.

ENGR 455 Fluid Power Systems3 Credits
Coverage of the fundamentals of hydraulic and pneumatic systems and their components, fluid power circuit design, analysis, and troubleshooting for industrial applications, introduction to electro-pneumatics.
Prerequisites: ENGR 321.

ENGR 460 Energy Systems3 Credits
Discussion of conventional, alternative and renewable energy systems, such as wind, solar, clean coal, and geothermal. Challenging energy problems relevant to the industry presented and analyzed.
Prerequisites: ENGR 312 and ENGR 321.

ENGR 465 Electric Power Systems3 Credits
Basic understanding of electric power systems; generation, transmission, distribution and consumption. Review of AC circuit analysis in single and three phase systems using time domain and phasor representation. Includes magnetic circuits, transformers and renewable energy generation from photovoltaic cells. Introduces electromechanical energy conversion from experiments with induction and synchronous motors/generators, and includes photovoltaic panels.
Prerequisites: ENGR 317.

ENGR 481 Thermal-Fluid Systems Analysis Using CFD3 Credits
Presentation of advanced computer simulation tools for analysis of thermal-fluid problems (fluid mechanics, thermodynamics, and heat transfer). Fundamentals of CFD (computational fluid dynamics) such as grid generation, solution techniques and convergence, modeling and simulation, and analysis of results for representative industrial problems discussed.
Prerequisites: CSCI 130 and ENGR 336.
ENGR 485 MET Design Project II 3 Credits
Second part of a two-course capstone design experience. Refinement of prototype, design optimization, fabrication, testing and evaluation. Students orally present the final design, prepare a written report and operation manual for the product.
Prerequisites: ENGR 445.

ENGR 495 Independent Study 1-4 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ENGR 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ENGR 497 Structured Research 1-3 Credits
Engineering research under the direct guidance of a faculty member. Designed for junior and senior level students.
Prerequisites: Permission of instructor.
ENGLISH (ENGL)

ENGL 111 English Composition-GTCO13 Credits
Introduction to writing as a process with an emphasis on achieving rhetorical purpose.
Prerequisites: Students who do not meet placement criteria will be assigned to ENGL 090 and must pass that class with a "C" or higher to enroll in ENGL 111.
Essential Learning Categories: English
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENGL 112 English Composition-GTCO23 Credits
The practice of academic writing that extends one’s own thinking in response to the ideas of others.
Prerequisites: ENGL 111 with a grade of "C" or higher to fulfill English Competency requirement under Essential Learning.
Essential Learning Categories: English
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENGL 131 Western World Literature I-GTAH23 Credits
Works from the Classical, Medieval, and Renaissance periods.
Essential Learning Categories: Humanities
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENGL 132 Western World Literature II-GTAH23 Credits
Works from the late Renaissance, Neoclassic, Romantic, and Modern periods.
Essential Learning Categories: Humanities
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENGL 150 Introduction to Literature-GTAH23 Credits
Study of major genres of literature.
Essential Learning Categories: Humanities
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENGL 196 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ENGL 210 Introduction to Literary Studies3 Credits
Introduction to the theory and practice of studying literature.
Prerequisites: ENGL 111.

ENGL 219 Introduction to Professional Writing-GTCO33 Credits
Study of technical writing, public information and public relations writing, and free-lance nonfiction writing.
Prerequisites: ENGL 112.
Essential Learning Categories: English
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENGL 222 Mythology-GTAH23 Credits
Basic myths of the Greeks and Romans, the cultures that produced them and/or the Northern and Medieval myths of Europe, their backgrounds in classical culture and native folklore.
Essential Learning Categories: Humanities
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENGL 231 Non-Western World Literature I-GTAH23 Credits
Literature from cultures outside the Western tradition, from antiquity to approximately 1800. Texts, chosen by instructor, may include works from China, Japan, India, the Middle East, etc.
Essential Learning Categories: Humanities
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENGL 232 Non-Western World Literature II-GTAH23 Credits
Nineteenth and twentieth century literature from Eastern, Indian, African, Asian and Latin American tradition.
Essential Learning Categories: Humanities
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENGL 240 Children’s Literature3 Credits
Survey of literature for children from birth to age 12, focusing on ways of reading texts.

ENGL 245 Imaginative Writing3 Credits
Introduction to the theory and practice of imaginative writing for young people.
Prerequisites: ENGL 111.

ENGL 250 Introduction to Creative Writing3 Credits
An introduction to the theory and practice of producing original works of poetry, fiction, and non-fiction prose.
Prerequisites: ENGL 111.

ENGL 254 Survey of English Literature I-GTAH23 Credits
English literature from its beginnings through the Enlightenment.
Essential Learning Categories: Humanities
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENGL 255 Survey of English Literature II-GTAH23 Credits
English literature from the Romantics to the present day.
Essential Learning Categories: Humanities
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENGL 261 Survey of American Literature I-GTAH23 Credits
American literature from the beginnings to the late 19th Century.
Essential Learning Categories: Humanities
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENGL 262 Survey of American Literature II-GTAH23 Credits
American literature from the late 19th Century to the present.
Essential Learning Categories: Humanities
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENGL 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ENGL 301 Classical Greek and Latin Literature3 Credits
Readings in English of Greek and Roman authors and major classical genres.
Prerequisites: ENGL 112.

ENGL 311 English Medieval Literature3 Credits
Major works of Old and Middle English literature.
Prerequisites: ENGL 112.

ENGL 313 English Renaissance Literature3 Credits
Major works of the 16th and 17th Centuries, including the Metaphysical and Caroline poets and John Milton.
Prerequisites: ENGL 112.
ENGL 314 American Literature to 1830
Credits
An in-depth study of various significant texts of the period, as well as other relevant texts. Texts and authors are chosen by the instructor to provide a thorough study of selected important historical, philosophical and literary aspects of the period.
Prerequisites: ENGL 112.

ENGL 315 American Literature 1830-1870
Credits
An in-depth study of various significant texts of the period, as well as other relevant texts. Texts and authors are chosen by the instructor to provide a thorough study of selected important historical, philosophical and literary aspects of the period.
Prerequisites: ENGL 112.

ENGL 316 American Literature 1870-1900
Credits
An in-depth study of various significant texts of the period, as well as other relevant texts. Texts and authors are chosen by the instructor to provide a thorough study of selected important historical, philosophical and literary aspects of the period.
Prerequisites: ENGL 112.

ENGL 320 Report and Proposal Writing
Credits
Introduction to the theory and practice of preparing and analyzing reports and proposals intended for businesses, governmental agencies, private and corporate foundations.
Prerequisites: ENGL 112.

ENGL 325 Writing for Engineers
Credits
Development of a set of communication tools by learning how to compose, design, and edit technical documents for the engineering professions. Topics include technical documentation (lab reports, designing of reports, proposals), professional correspondence (emails, memo reports, and team meetings), and verbal and graphical communication of technical data.

ENGL 330 Women in World Thought and Literature
Credits
Readings in world literature by and about women; interdisciplinary study of feminist theories and women's contributions to world thought.
Prerequisites: ENGL 112.

ENGL 335 The Bible as Literature
Credits
Prerequisites: ENGL 112.

ENGL 343 Language Systems and Linguistic Diversity
Credits
Introduction to the nature of language, first and second language acquisition, and issues relevant to linguistic diversity and multicultural literacies.
Prerequisites: ENGL 112.

ENGL 355 Shakespeare
Credits
Early and mature plays, including genres of comedy, history, tragedy, and romance, emphasizing close textual reading in conjunction with cultural and intellectual contexts.
Prerequisites: ENGL 112.

ENGL 365 Literature for Young Adults
Credits
Advanced study of major works for youth and adolescents throughout history, with an emphasis on contemporary authors.
Prerequisites: ENGL 112.

ENGL 370 Major Author
Credits
In-depth study of one or two important writers, with attention to the writer's distinctive style and subject matter, the range of the writer's career, and the influence of the writer's work.
Prerequisites: ENGL 112.
Course may be taken 10 times for credit.

ENGL 380 Memoir and Creative Non-Fiction
Credits
Theory and practice of the memoir and the personal essay. Emphasis on narrative craft, experiential expression, research, and interviewing.
Prerequisites: ENGL 250.

ENGL 381 Creative Writing: Fiction
Credits
Theory and practice of producing original works of fiction.
Prerequisites: ENGL 250 or permission of instructor.

ENGL 382 Creative Writing: Crafting Fiction
Credits
In-depth focus on a specialized aspect of fiction writing.
Prerequisites: ENGL 250 or permission of instructor.

ENGL 383 Creative Writing: Poetry
Credits
Theory and practice of producing original works of poetry.
Prerequisites: ENGL 250 or permission of instructor.

ENGL 384 The Art of the Essay
Credits
Theory and practice of objective non-fiction, including expository and persuasive writing. Emphasis on style, structure, and audience.
Prerequisites: ENGL 250 or permission of instructor.

ENGL 385 Technical and Professional Writing
Credits
Practice in writing and editing of workplace documents, including correspondence, reports and proposals.
Prerequisites: ENGL 112.

ENGL 386 Roots of Modern Rhetoric
Credits
A survey of the history of rhetoric from classical Greece to the present with emphasis on the Greco-Roman tradition.
Prerequisites: ENGL 112.

ENGL 387 Literary Editing and Publishing
Credits
Practical experience in literary editing and publishing one of Colorado Mesa University's journals.
Prerequisites: ENGL 250 or permission of instructor.

ENGL 388 Creative Writing: Crafting Poetry
Credits
In-depth focus on a specialized aspect of poetry writing.
Prerequisites: ENGL 250 or permission of instructor.

ENGL 389 Screenwriting
Credits
Theory and practice of producing original screenplays.
Prerequisites: ENGL 250 or ENGL 390.
Terms Typically Offered: Fall.

ENGL 390 Introduction to Film Studies
Credits
Introduction to film narrative, cinematography, and theory.
Prerequisites: ENGL 112.

ENGL 394 Technical and Professional Writing Topics
Credits
Topics at the discretion of the instructor, or to meet the needs of the department. Topics may include: grant writing for industry; professional editing; desktop publishing for professional writing; writing for online presentation; individual and team writing.
Prerequisites: ENGL 112.

ENGL 395 Independent Study
Credits
Prerequisites: ENGL 112.
Course may be taken multiple times up to maximum of 6 credit hours.
ENGL 396 Topics 1-3 Credits
Prerequisites: ENGL 112.
Course may be taken multiple times up to maximum of 15 credit hours.

ENGL 397 Practicum 3 Credits
Experience in a Basic Writing classroom helping the instructor with all phases of writing instruction.
Prerequisites: ENGL 250 or permission of instructor.

ENGL 398 Practicum in Editing and Publishing 1-3 Credits
Experience in editing and publishing one of Colorado Mesa University’s journals. Credit hours contracted through advising instructor.
Prerequisites: ENGL 112.
Course may be taken multiple times up to maximum of 9 credit hours.

ENGL 415 American Folklore 3 Credits
Explores folk expressions of values, beliefs, traditions, attitudes, and worldviews.
Prerequisites: ENGL 112.

ENGL 421 Introduction to Literary Theory and Criticism 3 Credits
Development and theory of literary criticism.
Prerequisites: ENGL 210.

ENGL 423 Genre Studies 3 Credits
History and development of an individual literary genre.
Prerequisites: ENGL 112.

ENGL 425 Scientific Writing 3 Credits
Theoretical and practical studies of writing in the sciences (science, medicine, and environmental writing). Addresses writing for both popular and professional audiences. Coverage of both print and online instructional materials. Safety, ethical and liability issues.
Prerequisites: ENGL 112 or 45 credit hours.

ENGL 427 Writing for Industry 3 Credits
Theoretical and practical studies of writing for industrial fields. Addresses writing for both popular and professional audiences. Covers both print and online instructional materials. Safety, ethical, and liability issues.
Prerequisites: ENGL 112 or 45 credit hours.

ENGL 435 American Literature 1900-1945 3 Credits
An in-depth study of various significant texts of the period, as well as other relevant texts. Texts and authors are chosen by the instructor to provide a thorough study of selected important historical, philosophical and literary aspects of the period.
Prerequisites: ENGL 112.

ENGL 436 American Literature 1945-Present 3 Credits
An in-depth study of various significant texts of the period, as well as other relevant texts. Texts and authors are chosen by the instructor to provide a thorough study of selected important historical, philosophical and literary aspects of the period.
Prerequisites: ENGL 112.

ENGL 438 Ethnic Experiences in U.S. Literature 3 Credits
Survey of literary works written throughout United States history by African-American, Hispanic-American, Native American and Asian American authors, as well as by authors from other underrepresented cultural communities.
Prerequisites: ENGL 112.

ENGL 440 History of the English Language 3 Credits
Historical development of the English language; its internal formation as shaped by external political, social, and intellectual forces.
Prerequisites: ENGL 112 and junior standing, or permission of instructor.

ENGL 451 Understanding and Using English Grammar 3 Credits
The art of using English grammar effectively for written and spoken communication.
Prerequisites: ENGL 112 and junior standing, or permission of the instructor.

ENGL 470 18th Century British Literature 3 Credits
Conceptual framework of the Enlightenment in England’s representative writers.
Prerequisites: ENGL 112.

ENGL 471 British Romanticism 3 Credits
Exploration of the poetry, prose, and drama of the Romantic period in Britain. Text and authors are chosen by the instructor to provide a thorough study of selected historical, philosophical and literary aspects of the period.
Prerequisites: ENGL 112.

ENGL 475 Victorian Literature 3 Credits
Representative works of post-Romantic British literature.
Prerequisites: ENGL 112.

ENGL 478 20th Century British Literature 3 Credits
Major works from 20th Century British writers.
Prerequisites: ENGL 112.

ENGL 491 Composition Theory and Practice 3 Credits
Theory and practice of composing as it applies to teaching English in the junior and senior high schools; historical context, contemporary theory, and current pedagogy in the field of composition studies.
Prerequisites: Senior standing in teacher certification program or permission of instructor.

ENGL 492 Seminar in Writing 3 Credits
Capstone course focusing on genre choice (novel, short story, poetry, memoir, creative non-fiction, screenplay, playwriting). Research into professional and publishing considerations. Development of a creative portfolio.
Prerequisites: ENGL 210, ENGL 250, and junior standing, or permission of instructor.

ENGL 494 Seminar in Literature 3 Credits
Analysis of an important literary work or works, requiring students to interpret, criticize, and present research.
Prerequisites: ENGL 210 and senior standing, or permission of instructor. Course may be taken 4 times for credit.

ENGL 495 Independent Study 1-3 Credits
Prerequisites: ENGL 112.
Course may be taken multiple times up to maximum of 6 credit hours.

ENGL 496 Topics 1-3 Credits
Prerequisites: ENGL 112.
Course may be taken multiple times up to maximum of 15 credit hours.

ENGL 497 Internship in Business, Technical, and Professional Communication 3 Credits
An opportunity to write, edit, and design business and technical documents in a professional setting. Projects may include reports, proposals, grants, manuals, brochures and newsletters.
Prerequisites: Senior standing or permission of instructor.

ENGL 499 Internship 1-12 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ENGL 521 Seminar in Literary Theory 3 Credits
Study of the content and application of literary theoretical frameworks.
ENGL 543 Language Systems and Linguistic Diversity3 Credits
Advanced study in the nature of language, first and second language acquisition, and issues relevant to linguistic diversity and multicultural literacies. Discussions will focus on education within and across home, community, and school contexts, including a focus on home-school-community relationships.
Prerequisites: Bachelor's degree.

ENGL 550 Studies in Creative Writing3 Credits
Studies in the history, development, theory, and practice of creative writing with an emphasis on understanding genre.

ENGL 554 Topics in British and Commonwealth Literature3 Credits
Analysis of an important British or Commonwealth literary work or works requiring students to interpret, criticize, and present research.

ENGL 561 Topics in American Literature3 Credits
Analysis of an important American literary work or works requiring students to interpret, criticize, and present research.

ENGL 586 Seminar in Rhetoric and Composition3 Credits
Theory and practice of rhetoric and composition including historical contexts, contemporary theories and current pedagogy.

ENGL 596 Topics1-3 Credits
Prerequisites: Bachelor's degree.
Course may be taken 10 times for credit.
ENGLISH-BASIC WRITING
(ENGC)

ENGC 090 College Preparatory Reading and Composition 3 Credits
This course uses whole language to develop proficiency in reading and writing for college. Emphasis is placed on applying analytic and critical reading skills in a variety of texts and on introducing the writing process. Upon completion, students should be able to recognize and use various patterns of text organization and compose effective paragraphs and essays. This course integrates ENGL 060/ENGL 090 and READ 060/READ 090. Successful completion of this course will prepare students to take college level essential learning courses in conjunction with a co-requisite reading/writing studio (READ 092/ENGC 092).

ENGC 092 Writing Studio 1 Credit
This course is designed to offer supplemental support for students in ENGL 111 and writing intensive courses across the disciplines. This is a corequisite with ENGL 111 or social science 100 discipline strands for students with Accuplacer scores less than 70.

ENGC 094 Reading & Writing Essentials 2 Credits
Introduction to critical thinking as students explore reading and writing for specific purposes and audiences. Students develop skills required for college-level writing while applying strategies for improving comprehension, developing vocabulary, and increasing speed for reading college textbooks. Successful completion of this course will prepare students for college-level general education courses with a corequisite reading/writing studio.

Corequisites: ENGC 090. This course is for the students that fall below the index score of 80.

ENGC 096 Topics: 1-4 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
ENTREPRENEURSHIP (ENTR)

ENTR 196 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ENTR 296 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ENTR 300 Small Business and Entrepreneurship 3 Credits
Aspects of management uniquely important to small business firms; the economic and social environment in which they function.

ENTR 340 Applied Financial Management for Emerging Businesses 3 Credits
Overview of basic accounting and finance concepts for non-business majors owning or employed by small business/entrepreneurial ventures.

ENTR 343 Exploring Entrepreneur Opportunities 3 Credits
Introduction to innovation and opportunity recognition, including development of business ideas, business model validation and business feasibility analysis.

ENTR 350 The Entrepreneurial Mindset 3 Credits
Prerequisites: ENTR 300 or permission of instructor.

ENTR 396 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ENTR 401 Entrepreneurial Finance 3 Credits
The theory and practices of financing for the entrepreneur. Topics include cash forecasting and financial planning, cash collection and disbursements, short-term investing and financing, inventory management, accounts receivable management, credit and collections policy, and payables and accruals management.
Prerequisites: FINA 301.

ENTR 450 Entrepreneurship 3 Credits
Analysis of managerial problems of small business, preparing a business plan, case studies, and individual reports of local small business enterprises. Understanding of elementary accounting, finance, and business law required.
Prerequisites: ACCT 201, MANG 201, MARK 231, FINA 301, and students choose either MARK 350 or CISB 341.

ENTR 496 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ENTR 550 Entrepreneurship 3 Credits
Takes the student through activities that an entrepreneur would encounter in the small business start-up process. Topics will center around marketing, managerial, legal, financial and informational needs of the new venture. The use of cases, real life projects and Internet resources will be used extensively during the course.
ENVIRONMENTAL SCIENCE (ENVS)

ENVS 101 Introduction to Environmental Science-GTSC23 Credits
Impact of resource use and pollution on the earth’s environment and biota. Scientific approach to solving environmental problems and the impacts of values upon global environmental decisions examined. General environmental awareness and literacy emphasized. Students may take either ENVS 101 or ENVS 103/ENVS 103L for essential learning natural science credit, but not both.
Essential Learning Categories: Natural Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENVS 103 Field-Based Introduction to Environmental Science-GTSC13 Credits
Examination of the effects of resource use and pollution on the earth’s environment and biota. Integration of lecture with field and lab exercises to demonstrate scientific approach to solving environmental problems. Emphasis on environmental awareness and critical thinking. Students may take either ENVS 101 or ENVS 103/ENVS 103L for essential learning natural science credit, but not both.
Corequisites: ENVS 103L.
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENVS 103L Field-Based Introduction to Environmental Science Laboratory-GTSC1 Credit
Lab component required for ENVS 103.
Corequisites: ENVS 103.
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

ENVS 104 Environmental Science: Global Sustainability3 Credits
Examination of local to global environmental issues. Includes human population dynamics and impact of agriculture on the environment, ecosystem function, energy use and sustainable development, air, water and soil pollution, climate change and environmental policy. Critical evaluation of readings from historical and modern environmental topics supplement lectures.
Prerequisites: Declared ENVS major or minor or permission of instructor. Will not count as credit to the major if credit has already been received for ENVS 101 or ENVS 103.

ENVS 105 Readings in Environmental Science1 Credit
Critical readings in environmental science. Majors in Environmental Science and Technology only. ENVS 101 and 105 together are a substitute for ENVS 104.
Prerequisites: ENVS 101.

ENVS 150 Introduction to Environmental Field Studies1-3 Credits
Techniques for common field measurements in environmental science. Basic interpretation and statistical analysis of data. Human effects on natural systems.

ENVS 196 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ENVS 204 Introduction to Ecosystem Management3 Credits
Scientific management of natural resources in a changing environment. Problem solving emphasized in a case study approach to ecosystem management. Theories of ecology, economics, fisheries and wildlife management, biology, and sociology to solve problems using realistic and complex landscape scenarios.
Prerequisites: ENVS 104 or permission of instructor.
Corequisites: ENVS 204L.

ENVS 204L Introduction to Ecosystem Management Laboratory1 Credit
Lab component required for ENVS 204.
Prerequisites: ENVS 104 or permission of instructor.
Corequisites: ENVS 204.

ENVS 212 Environmental Health and Safety2 Credits
Examination of environmental health and safety issues associated with hazardous materials. Includes basic toxicology, threat assessment, and control strategies. Meets 40-hour OSHA training requirement for hazardous waste operations.
Prerequisites: ENVS 221 or permission of instructor.
Corequisites: ENVS 212L.

ENVS 212L Environmental Health and Safety Laboratory1 Credit
Lab component for ENVS 212.
Prerequisites: ENVS 221 or permission of instructor.
Corequisites: ENVS 212.

ENVS 221 Science and Technology of Pollution Control3 Credits
Introduction to scientific, engineering, and technical elements of pollution control. Includes pollutant characteristics, investigation and cleanup of contaminated sites, waste treatment (air emissions, wastewater discharges, hazardous waste), waste minimization, life cycle analysis, and industrial ecology. Lab focuses on site investigation skills, design and operation of selected treatment technologies, and waste minimization audits.
Prerequisites: ENVS 104; mastery of high school algebra; CHEM 121 or CHEM 131 recommended.
Corequisites: ENVS 221L.

ENVS 221L Science and Technology of Pollution Control Laboratory1 Credit
Lab component for ENVS 221.
Prerequisites: ENVS 101 or ENVS 104; mastery of high school algebra; CHEM 121 or CHEM 131 recommended.
Corequisites: ENVS 221.

ENVS 227 Permaculture Design2 Credits
Practical application of ecology to design of sustainable human and agricultural systems. Topics include permaculture principles, design strategies, sustainable agriculture, natural building, cooperative economics, and neighborhood design. Students work in teams to complete a design project for a local site.
Corequisites: ENVS 278L.

ENVS 278 Permaculture Design Laboratory2 Credits
Lab component required for ENVS 278.
Corequisites: ENVS 278.

ENVS 296 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
ENVS 296L Topics 1-3 Credits
ENVS 301 Environmental Project Management 2 Credits
Basic practices of effective project management, including proposal preparation, planning, scheduling, cost estimating, cost and progress tracking, and team building.
Prerequisites: Any one of the following: ENVS 204, ENVS 221, ENVS 331, ENVS 340.

ENVS 312 Soil Science and Sustainability 3 Credits
Prerequisites: CHEM 121 or higher and ENVS 204/ENVS 204L, or permission of instructor.
Corequisites: ENVS 312L.

ENVS 312L Soil Science and Sustainability Laboratory 1 Credit
Lab component required for ENVS 312.
Prerequisites: CHEM 121 or higher and ENVS 204/ENVS 204L, or permission of instructor.
Corequisites: ENVS 312.
Fees: Yes.

ENVS 315 Mined Land Rehabilitation 2 Credits
Principles and practices of mined land reclamation. Topics include mining techniques, disturbances caused by mining, regulations, closure of mine features, soil preparation, revegetation, and monitoring.
Prerequisites: ENVS 455 or ENVS 312/ENVS 312L (may be taken concurrently).
Fees: Yes.

ENVS 321 Environmental Risk Analysis 3 Credits
Assessment, management, and control of risk from toxic substances in the environment. Topics include basic elements of toxicity testing and epidemiology, chemical fate in the environment, exposure assessment, uncertainty in risk estimates, approaches to risk management, and risk communication.
Prerequisites: ENVS 221, ENVS 221L, and MATH 113.

ENVS 331 Water Quality 3 Credits
Physical, chemical, and biological properties of aquatic systems. Includes movement of water in the watershed, stream classification and stability, lake circulation, aquatic ecology, chemistry and biology of natural and polluted waters, water quality monitoring, regulation and protection of surface water, and watershed assessment and management. Lab focuses on practical skills and field measurements culminating in an assessment of a local watershed.
Prerequisites: CHEM 121 or CHEM 132, and STAT 200.
Corequisites: ENVS 331L.

ENVS 331L Water Quality Laboratory 1 Credit
Lab component required for ENVS 331.
Prerequisites: CHEM 121 or CHEM 132, and STAT 200.
Corequisites: ENVS 331.
Fees: Yes.

ENVS 337 Stream Biomonitoring 2 Credits
Examination of the structure and organization of macroinvertebrate assemblages in streams and rivers. Topics include sample collection, sample preservation, sample identification, and analysis using the State of Colorado multimetric index for assessing water quality.
Prerequisites: ENVS 331/ENVS 331L.

ENVS 340 Applied Atmospheric Science 3 Credits
Examination of the atmosphere and air pollution. Includes physical and chemical properties of the atmosphere, meteorology, air pollutant sources and effects, monitoring, pollutant dispersion, emission inventory, management of emissions, and regulation of air quality.
Prerequisites: CHEM 121 or CHEM 131.

ENVS 350 Ecology and Management of Shrublands and Grasslands 3 Credits
Examination of ecological principles in determining the structure, function, and management of North American grasslands and shrublands. Three one-hour lectures and one three-hour lab per week. Two Saturday labs may be required.
Prerequisites: STAT 200 and ENVS 204/ENVS 204L.
Corequisites: ENVS 350L.

ENVS 350L Ecology and Management of Shrublands and Grasslands Laboratory 1 Credit
Lab component required for ENVS 350.
Prerequisites: STAT 200 and ENVS 204/ENVS 204L.
Corequisites: ENVS 350.
Fees: Yes.

ENVS 354 Forest Ecology and Management 3 Credits
Examination of the structure and function of trees and forests. Topics include forest stand development, carbon cycling, nutrient cycling, forest disturbances, and basic practices of sustainable forest management.
Prerequisites: ENVS 204 and ENVS 204L.

ENVS 360 Fire Ecology 3 Credits
Examination of the ecological effects of fire on forests, shrublands, and grasslands. Includes fire effects on plants, animals, soil, and water, as well as using fire as a restoration tool.
Prerequisites: STAT 200 and ENVS 204/ENVS 204L.
Corequisites: ENVS 360L.

ENVS 360L Fire Ecology Laboratory 1 Credit
Field experience examining the ecological effects of fire on forests, shrublands, and grasslands of the Colorado Plateau. Includes field and lab studies that test the effects of fire on plants, animals, soil, and water. One 3-hour lab per week. May require 2 Saturday labs.
Prerequisites: STAT 200 and ENVS 204/ENVS 204L.
Corequisites: ENVS 360.
Fees: Yes.

ENVS 370 Renewable Energy 3 Credits
An introduction to renewable energy resources from a technical perspective with an emphasis on sustainability. Topics include an introduction to the concepts of energy and power, units of measure, sources and forms of energy, uses of energy, energy efficiency, electricity, solar thermal and photovoltaics, bioenergy, hydropower, tidal power, wave power, wind power, geothermal, hydrogen, efficient building design and integration of renewables with current energy supplies.

ENVS 374 Sustainable Building 3 Credits
Principles and practices of "green" building. Topics include philosophy of sustainable design, site development, passive heating and cooling, innovative structural systems and materials, energy supply and conservation, water and waste water management, indoor air quality, and case studies.
ENVS 394 Natural Resources of the West1 Credit
Seminars covering topics related to natural resources including water, soil, land, mineral and energy resources in the western United States. Guest speakers are invited from the academic community, industry or government agencies to give formal oral presentations following by informal discussion with students and faculty. The course may be repeated for a maximum of four semester hours of credit. Course may be taken multiple times up to maximum of 4 credit hours.

ENVS 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ENVS 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

Fees: Yes.

ENVS 410 Environmental Regulatory Compliance3 Credits
Examination of regulatory requirements pertaining to air pollution, water pollution, hazardous materials, and radioactive materials. Additional topics include enforcement, compliance management systems, compliance auditing, and innovative approaches to regulation. Prerequisites: ENVS 221, and junior or senior standing.

ENVS 413 Environmental Fate and Transport of Contaminants3 Credits
Physical, chemical, and biological factors influencing the persistence and migration of chemicals in the environment. Includes consideration of air, surface water, soil, and ground water. Emphasis on quantitative problem solving. Prerequisites: CHEM 121 or CHEM 132; and MATH 119, MATH 146, or MATH 151.

ENVS 420 Pollution Investigation & Monitoring3 Credits
Survey of field sampling and analytical methods for study of environmental systems. Topics include sampling design, regulatory issues, quality assurance, quality control, data interpretation, and reporting. Three one-hour lectures and one three-hour laboratory per week. Prerequisites: CHEM 121 or CHEM 131, and STAT 200; ENVS 221/ENVS 221L recommended. Corequisites: ENVS 420L.

ENVS 420L Pollution Investigation & Monitoring Laboratory1 Credit
Examination of strategies and techniques for investigating contaminated sites and monitoring environmental pollutants. Topics include Phase I assessments, development and implementation of sampling and monitoring plans, quality assurance, methods of analysis, and data interpretation and presentation. Prerequisites: CHEM 121 or CHEM 131, and STAT 200; ENVS 221/ENVS 221L recommended. Corequisites: ENVS 420.

ENVS 431 Water and Wastewater Treatment3 Credits
Examination of water and wastewater treatment processes including physical, chemical, and biological treatment technologies. Emphasis on unit process design and modeling. Prerequisites: ENVS 331.

ENVS 433 Restoration of Aquatic Systems3 Credits
Principles and practices of restoring the functions and values of streams, ponds, and wetlands. Addresses physical, chemical, and biological aspects of these aquatic systems. Prerequisites: ENVS 331 and ENVS 331L.

ENVS 435 Restoration Ecology3 Credits
Examination of principles and techniques for restoration of community characteristics and ecosystem functions to disturbed lands. Lecture and lab emphasize practical application of ecological principles to restoration culminating in an independent project of designing a restoration project for a local area. Prerequisites: ENVS 204 and ENVS 312, or permission of instructor. Corequisites: ENVS 455L.

ENVS 455L Restoration Ecology Laboratory1 Credit
Lab component required for ENVS 455. Prerequisites: ENVS 204 and ENVS 312, or permission of instructor. Corequisites: ENVS 456. Fees: Yes.

ENVS 460 Fire Management3 Credits
Examination of principles and current topics in fire management, including fire behavior, prescribed fire/fire management, fuels/fuels management, wildfire control, fire in the wildland-urban interface, and fire policy. Prerequisites: ENVS 360/ENVS 360L, STAT 200, one semester of biology. Corequisites: ENVS 460L.

ENVS 460L Fire Management Laboratory1 Credit
Field, lab, and computer modeling experience in predicting fire behavior, planning prescribed burns, managing hazardous fuels, and assessing wildfire risk in the wildland-urban interface. Prerequisites: ENVS 360/ENVS 360L, STAT 200, one semester of biology. Corequisites: ENVS 460. Fees: Yes.

ENVS 475 Experimental Design and Statistical Analysis in Environmental Science3 Credits
Examination of principles and techniques for designing experiments and analyzing data in environmental sciences. Emphasis on practical application of analysis techniques using environmental data with computer applications. Prerequisites: ENVS 204 or ENVS 221, STAT 200, and 6 upper division credits; or permission of instructor.

ENVS 492 Capstone in Environmental Science and Technology2 Credits
Small-group environmental projects for outside organizations. Prepare project proposals, plan and implement projects, write project reports, and give oral presentations to clients. Exit exams for the Environmental Science and Technology major are administered as part of this course. Prerequisites: Senior standing or permission of instructor.

ENVS 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

ENVS 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

ENVS 497 Structured Research1-3 Credits
Research in environmental science under the direct guidance of a faculty member. Designed for junior and senior level students. Prerequisites: Permission of instructor.

ENVS 499 Internship1-4 Credits
Work experience for a non-academic organization on environmental projects. Requires 45 contact hours per credit hour, a final report, and oral presentation. Available as an elective for Environmental Science & Technology majors. Prerequisites: Junior or senior standing in the Environmental Science & Technology program or permission of instructor. Course may be taken multiple times up to maximum of 15 credit hours.
ENVS 596 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
ESSENTIAL LEARNING (ESSL)

ESSL 200 Essential Speech 1 Credit
Development of confidence and competence in speaking through cross-curricular topics generated from individual Maverick Milestone coursework.
Prerequisites: ENGL 112, MATH 110 or higher, at least 45 credit hours completed.
Corequisites: ESSL 290.
Course may be taken 10 times for credit.

ESSL 290 Maverick Milestone 3 Credits
Interdisciplinary, thematically-oriented transition from the Essential Learning program to specialized programs. Develop the ability to solve problems and approach ideas using more than one set of intellectual tools. Taken before the student completes 75 credit hours.
Prerequisites: ENGL 112, MATH 110 or higher, at least 45 credit hours completed.
Corequisites: ESSL 200.
Course may be taken 10 times for credit.
FINANCE (FINA)

FINA 301 Managerial Finance 3 Credits
Acquisition, allocation, and management of funds within the business enterprise. Financial goals, funds flow, valuation, capital budgeting, and financing strategies.
Prerequisites: ACCT 201, and CISB 241 or STAT 241.

FINA 310 Risk Management 3 Credits
Identification of risk, risk analysis, risk evaluation and methods of resolving risk issues in a business environment. Insurance as a risk management tool discussed.
Prerequisites: Permission of instructor.

FINA 320 Fundamentals of Investments 3 Credits
Introduction to the theory and practices of investment valuation and management. Topics include risk and return, investor objectives and strategies, the types and characteristics of investment instruments, the process of buying and selling securities, investment valuation and yields, and portfolio management.
Prerequisites: FINA 301.

FINA 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

FINA 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

FINA 412 Life and Health Insurance Licensure and Financial Planning 3 Credits
Analysis of personal and business life and health insurance policies. Focus includes coverage need determination, underwriting, marketing, financial, ratemaking, reserving and other insurance considerations.
Prerequisites: Permission of instructor.

FINA 415 Property and Liability Insurance Licensure 3 Credits
Analysis of personal and business property and liability insurance policies. Focus includes coverage need determination, underwriting, marketing, financial, ratemaking, reserving and other insurance considerations.
Prerequisites: Permission of instructor.

FINA 420 Security Analysis and Portfolio Management 3 Credits
Extension of the theory and practices of investment valuation and management. Topics include risk and return, market efficiency, economic and industry analysis, fundamental and technical analysis, bond analysis and management strategies, portfolio management and performance evaluation, and the characteristics and uses of options, rights, warrants, convertibles, and futures.
Prerequisites: FINA 301 and FINA 320.

FINA 431 International Financial Management 3 Credits
The theory and practices of financial management in an international product and capital marketplace. Topics include the international flow of funds, exchange rate determinants and risk hedging, international arbitrage and interest rate parity, purchasing power parity and the international Fisher effect, instruments of international trade financing, multinational capital budgeting, multinational costs of capital, and multinational capital structure.
Prerequisites: FINA 301.

FINA 451 Financial Management: Theory and Applications 3 Credits
Extension of the theory and practices of financial management using a case analysis approach. Topics include financial statement analysis, financial planning and forecasting, risk and return, capital budgeting, lease financing, cost of capital, capital structure, dividend policy, and risk management.
Prerequisites: FINA 301; senior standing or permission of instructor.

FINA 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

FINA 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

FINA 500 Financial Strategy 3 Credits
Introduction and development of analysis of the financial aspects of a corporation using both theory and application. Topics include capital markets, global economic factors that affect the corporation, capital asset pricing model, portfolio analysis and capital structure policy.
FINE ARTS (FINE)

FINE 101 The Living Arts-GTAH13 Credits
An interdisciplinary survey of human creative efforts as they relate to each other. Art, drama, and music are compared with similarities stressed.

Essential Learning Categories: Fine Arts
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

FINE 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

FINE 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

FINE 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

FINE 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

FINE 499 Internship8 or 15 Credits
Part or full-time work in various aspects of arts management. Sites may include galleries, musical, theatrical or other performing organizations, arts centers, or other situations that meet the instructor's approval. Half-time equals eight semester hours credit; full-time equals 15 semester hours credit.

Prerequisites: junior standing in visual or performing arts. May also require selected courses in business, social science, etc. as appropriate to the internship sought.
Course may be taken multiple times up to maximum of 15 credit hours.
FOREIGN LANGUAGE-
AMERICAN SIGN LANGUAGE
(FLSL)

FLSL 111 American Sign Language I 3 Credits
Basic receptive and expressive skill acquisition in American Sign Language (ASL) and other signing modes. Includes approximately 400 vocabulary items; the manual alphanumeric system; interrogatives; subject, object, possessive pronouns; simple present, past, and future verb tense formation.

FLSL 112 American Sign Language II 3 Credits
Receptive and expressive skill practice in American Sign Language (ASL) and other signing modes. Includes approximately 800 vocabulary terms; classifiers; numeral incorporation; fingerspelling, loan signs, directional verbs; body and facial language.
Prerequisites: FLSL 111.
FOREIGN LANGUAGE-FRENCH (FLAF)

FLAF 111 First-Year French I 3 Credits
Introduction to the French language and culture.

FLAF 112 First-Year French II 3 Credits
Introduction to the French language and culture.

FLAF 211 Second-Year French I 3 Credits
Grammar review, vocabulary distinction, and readings in the French language.
Prerequisites: two years of high school French, FLAF 111 and FLAF 112, or permission of instructor.

FLAF 212 Second-Year French II 3 Credits
Grammar review, vocabulary distinction, and readings in the French language.
Prerequisites: two years of high school French, FLAF 111 and FLAF 112, or permission of instructor.

FLAF 290 Special Studies In French 1-3 Credits
Study beyond the scope of the existing curriculum.

FLAF 295 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.
FOREIGN LANGUAGE-GERMAN (FLAG)

FLAG 111 First-Year German I 3 Credits
Introduction to the German language.

FLAG 112 First-Year German II 3 Credits
Introduction to the German language.

FLAG 211 Second-Year German I 3 Credits
Grammar review, vocabulary distinction, and readings in the German language.
Prerequisites: two years of high school German, FLAG 111 and FLAG 112, or permission of instructor.

FLAG 212 Second-Year German II 3 Credits
Grammar review, vocabulary distinction, and readings in the German language.
Prerequisites: two years of high school German, FLAG 111 and FLAG 112, or permission of instructor.

FLAG 290 Special Studies in German 1-3 Credits
Study beyond the scope of the existing curriculum.
FOREIGN LANGUAGE-GREEK (FLGK)

FLGK 111 Introductory Greek I 3 Credits

FLGK 112 Introductory Greek II 3 Credits
Introduction to the fundamentals of reading ancient Greek. Emphasizes basic vocabulary and grammar. Explores aspects of Greek literature and culture. Provides a foundation for the study of ancient Greece. Develops a practical understanding of English.

FLGK 395 Independent Study 1 or 3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.
FOREIGN LANGUAGE-ITALIAN (FLAI)

FLAI 111 First-Year Italian I 3 Credits
Introduction to Italian. Basic competency in understanding, speaking, reading, and writing Italian.
Terms Typically Offered: Fall.

FLAI 112 First-Year Italian II 3 Credits
Continued work on basic competency in Italian. Increasing familiarity with Italian culture.
Prerequisites: FLAI 111.
Terms Typically Offered: Spring.
FOREIGN LANGUAGE-JAPANESE (FLAJ)

FLAJ 111 Beginning Japanese I 3 Credits

FLAJ 112 Beginning Japanese II 3 Credits
Continued work on basic competency in understanding, speaking, reading, and writing Japanese. Increasing familiarity with Japanese culture.
FOREIGN LANGUAGE-LATIN (FLLT)

FLLT 111 Introductory Latin 13 Credits

FLLT 112 Introductory Latin 2 3 Credits

FLLT 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.
FOREIGN LANGUAGE-MANDARIN CHINESE (FLAM)

FLAM 111 First-Year Mandarin Chinese I 3 Credits
Introduction to Mandarin Chinese. Basic competency in understanding, speaking, reading, and writing Mandarin Chinese. 
**Terms Typically Offered:** Fall.

FLAM 112 First-Year Mandarin Chinese II 3 Credits
Continued work on basic competency in Mandarin Chinese. Increasing familiarity with Chinese culture.
**Prerequisites:** FLAM 111.
**Terms Typically Offered:** Spring.
FOREIGN LANGUAGE-OTHER (FLAV)

FLAV 196 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

FLAV 290 Special Studies in Foreign Languages: 1-6 Credits
These courses are currently offered through Outreach: Ancient Greek, Latin, Advanced French, German, Spanish and other Classical and Modern Languages as permitted by interest and instructor availability.

FLAV 290A Ancient Greek Begin I: 3 Credits
FLAV 290B Ancient Greek Begin II: 3 Credits
FLAV 290C Mandarin Beginning I: 3 Credits
FLAV 290D Mandarin Beginning II: 3 Credits
FLAV 290E Japanese Beginning I: 3 Credits
FLAV 290F Beginning Japanese II: 3 Credits
FLAV 290G Intermediate Japanese I: 3 Credits
FLAV 290H Intermediate Japanese II: 3 Credits
FLAV 290I Hebrew Beginning I: 3 Credits
FLAV 290J Hebrew Beginning II: 3 Credits
FLAV 290K Italian Beginning I: 3 Credits
FLAV 290M Italian Beginning II: 3 Credits
FLAV 290N Latin Beginning I: 3 Credits
FLAV 290P Latin Beginning II: 3 Credits
FLAV 290S Russian Beginning I: 3 Credits
FLAV 290T Russian Beginning II: 3 Credits
FLAV 295 Independent Study: 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

FLAV 296 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

FLAV 390 Special Studies in Foreign Languages: 1-3 Credits
These courses are currently offered through Outreach: Ancient Greek, Latin, Advanced French, German, Spanish and other Classical and Modern Languages as permitted by interest and instructor availability.

FLAV 390G French Intermediate I: 3 Credits
FLAV 390H French Intermediate II: 3 Credits
FLAV 390S Russian Intermediate I: 3 Credits
FLAV 390T Russian Intermediate II: 3 Credits
FLAV 390U French Advanced: 3 Credits
FLAV 390V German Advanced: 3 Credits
FLAV 390W Spanish Advanced: 3 Credits
FLAV 395 Independent Study: 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

FLAV 396 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

FLAV 495 Independent Study: 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

FLAV 496 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
FOREIGN LANGUAGE-RUSSIAN (FLAR)

FLAR 111 First-Year Russian I 3 Credits
Introduction to Russian. Basic competency in understanding, speaking, reading, and writing Russian.
**Terms Typically Offered:** Fall.

FLAR 112 First-Year Russian II 3 Credits
Continued work on basic competency in Russian. Increasing familiarity with Russian culture.
**Prerequisites:** FLAR 111.
**Terms Typically Offered:** Spring.
FOREIGN LANGUAGE-Spanish (FLAS)

FLAS 111 First-Year Spanish I 3 Credits
Basic Spanish language skills. Introduction to greetings, classroom and family vocabularies in the present and present progressive tenses. Hispanic cultural and social interactions.

FLAS 112 First-Year Spanish II 3 Credits
Continuation of basic Spanish language skills. Introduction of specialized vocabularies and past tenses (preterit vs. imperfect). Continuation of Hispanic cultural and social interactions.
Prerequisites: FLAS 111 or permission of instructor.

FLAS 114 Conversational Spanish I 3 Credits
A beginning level class for adult students who wish to develop a basic vocabulary for speaking and understanding Spanish socially, on the job or south of the border.

FLAS 115 Conversational Spanish II 3 Credits
A beginning level class for adult students who wish to develop a basic vocabulary for speaking and understanding Spanish socially, on the job or south of the border.

FLAS 118 Career Spanish 3 Credits
For students with a background in FLAS 111 and FLAS 112 [First Year Spanish I & II] or their equivalent who wish to perfect command of the language in a variety of workplaces and professional areas of interest.
Prerequisites: FLAS 111 and FLAS 112 [or their equivalent].

FLAS 211 Second-Year Spanish I 3 Credits
End of basic Spanish language skills. Introduces subjunctive mood, future and conditionals and other language constructions.
Prerequisites: FLAS 112 or permission of instructor.

Essential Learning Categories: Humanities
FLAS 212 Second-Year Spanish II 3 Credits
Review of Spanish grammar. Practice in writing, speaking, listening comprehension and reading.
Prerequisites: FLAS 211, or permission of instructor.

FLAS 213 Spanish Conversation and Grammar 3 Credits
Conversational practice in Spanish over a wide range of topics, with focus on conversational skills at the intermediate level. Review of Spanish grammar.
Prerequisites: FLAS 211 (can be taken concurrently with FLAS 300).

Essential Learning Categories: Humanities
FLAS 290 Special Studies in Spanish 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

FLAS 295 Independent Study 1-3 Credits
FLAS 300 Spanish Composition and Grammar 3 Credits
Writing practice in Spanish over a wide range of topics (including written accents and other spelling conventions), with focus on writing skills at the intermediate level. Review of Spanish grammar.
Prerequisites: FLAS 213 (can be taken concurrently).

FLAS 301 Advanced Spanish Grammar 3 Credits
Level of instruction that assumes a previous formal contact with Spanish. It is not only devoted to increase awareness of grammatical accuracy but also develops the form and structure of language, always oriented towards a practical use of Spanish.
Prerequisites: FLAS 212 or permission of instructor.

FLAS 302 Advanced Spanish Composition 3 Credits
Writing of well-structured and clearly-planned compositions of varying lengths and styles. Provides the opportunity for students to do research and prepares them for the writing of regular term papers in Spanish.
Prerequisites: FLAS 301 or permission of instructor.

FLAS 303 Advanced Spanish Conversation 3 Credits
Conversational practice in Spanish over a wide range of topics. Strategies in organization of oral discourse, and improvisation with special attention to advanced expression, grammaticality, and specific characteristics of spoken language.
Prerequisites: FLAS 301 and FLAS 302.

FLAS 304 Advanced Oral Production and Composition 3 Credits
Introduction to writing well-structured and clearly planned compositions of varying lengths and styles. Preparation, organization, and delivery of a speech in Spanish. Provides the opportunity for students to conduct research and prepares them for the writing of term papers and oral presentations in Spanish. Special attention given to advanced expression and grammar.
Prerequisites: FLAS 300.

FLAS 305 Advanced Spanish Grammar and Spanish English Contrasts 3 Credits
Development of grammatical awareness and accuracy, oriented towards a practical use of Spanish. Includes comparison and contrast of English and Spanish grammar.
Prerequisites: FLAS 300.

FLAS 311 History and Culture of Spain 3 Credits
History and culture of Spain. Early inhabitants through the twenty-first century. Written and oral reports in Spanish. Emphasizes development of cultural awareness and language skills.
Prerequisites: FLAS 304.

FLAS 312 History and Culture of Latin America 3 Credits
History and culture of Latin America from early inhabitants through the twenty-first century. Written and oral reports in Spanish. Emphasizes development of cultural awareness and language skills.
Prerequisites: FLAS 304.

FLAS 321 Introduction to the Literature of Spain 3 Credits
Introduction to the literature of Spain from the Middle Ages through the twenty-first century. Includes excerpts from major works in poetry, narrative, and theater.
Prerequisites: FLAS 301, FLAS 302, and FLAS 303, or permission of instructor.

FLAS 322 Introduction to the Literature of Latin America 3 Credits
Introduction to the literature of Latin America from Columbus through the twenty-first century. Includes indigenous traditions and excerpts from major works in poetry, narrative, and theater.
Prerequisites: FLAS 301, FLAS 302, and FLAS 303, or permission of instructor.

FLAS 323 Introduction to Hispanic Literature I 3 Credits
Exploration of Peninsular and Latin-American literature from their earliest manifestations through the 18th century. Introduction to literary analysis and criticism.
Prerequisites: FLAS 305.

FLAS 324 Introduction to Hispanic Literature II 3 Credits
Exploration of Peninsular and Latin-American literature from early 19th century works through contemporary literature. Introduction to literary analysis and criticism.
Prerequisites: FLAS 305.
FLAS 341 Introduction to Hispanic Linguistics 3 Credits
Introduction to human language with Spanish as the primary source for description and analysis. Explores Phonology, Word formation, Language Acquisition, Language and Society. Students will be equipped with the skills necessary to apply linguistic concepts to actual Spanish language data.
**Prerequisites:** FLAS 301, FLAS 302, and FLAS 303, or permission of instructor.

FLAS 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

FLAS 421 Hispanic Poetry 3 Credits
Exploration of peninsular and/or Latin-American poetry, poets, and poetic forms. May include poetry written by Hispanic authors in the United States.
**Prerequisites:** FLAS 301, FLAS 302, and FLAS 303.

FLAS 422 Hispanic Prose 3 Credits
Exploration of peninsular and/or Latin-American prose, including the novel, short story, and/or essay. May include prose written by Hispanic authors in the United States.
**Prerequisites:** FLAS 301, FLAS 302, FLAS 303, and FLAS 341.

FLAS 423 Hispanic Drama and Film 3 Credits
Exploration of dramatic texts and/or cinema from throughout the Spanish speaking world. May include plays and films by Hispanic authors in the United States.
**Prerequisites:** FLAS 301, FLAS 302, FLAS 303, and FLAS 341, or permission of instructor.

FLAS 424 Advanced Hispanic Literature 3 Credits
Exploration of important Hispanic literary movements through a more in-depth study of genres, including prose, poetry, film and drama. Topics vary.
**Prerequisites:** FLAS 323 or FLAS 324.

FLAS 431 Spanish for Medical and Social Services 3 Credits
Provides for acquisition and refinement of superior linguistic and cross-cultural Spanish/English skills used in health care and social services.
**Prerequisites:** FLAS 341.

FLAS 433 Spanish for the Professions 3 Credits
Exploration of linguistic and cultural aspects of professional practices in a Hispanic context. Developing skills necessary for professional communication.
**Prerequisites:** FLAS 341 or FLAS 323 or FLAS 324 or FLAS 311 or FLAS 312.

FLAS 434 Introduction to Translation 3 Credits
**Prerequisites:** FLAS 323 or FLAS 324 or FLAS 311 or FLAS 312 or FLAS 341.

FLAS 435 Introduction to Interpreting 3 Credits
Fundamentals of interpreting. Enhancement of linguistic and cross-cultural skills dealing with Spanish-English interpreting.
**Prerequisites:** FLAS 311 or FLAS 312 or FLAS 323 or FLAS 324 or FLAS 341.

FLAS 441 Applied Phonetics and Phonology 3 Credits
**Prerequisites:** FLAS 341.

FLAS 442 Methodology of Teaching Foreign Languages 3 Credits
Examination of current trends, methods, and techniques in foreign language pedagogy.
**Prerequisites:** FLAS 301, FLAS 302, FLAS 303, FLAS 341, and FLAS 441, or permission of instructor.

FLAS 444 Using Technology, Literature and Culture in the Spanish Language Classroom 3 Credits
Examination of current trends and techniques in the use of literature, technology and culture for teaching Spanish.
**Prerequisites:** FLAS 311, FLAS 312, FLAS 321, FLAS 322, and FLAS 341, or permission of instructor.

FLAS 446 Spanish Language Variation 3 Credits
Exploration of variation and change in the Spanish-speaking world. A special look at language contact phenomena, with particular focus on Spanish/English contact situations.
**Prerequisites:** FLAS 341.

FLAS 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

FLAS 498 Spanish Senior Practicum 3 Credits
Faculty-coordinated internship consisting of work-oriented instruction in Spanish involving classroom or laboratory experiences and/or research.
**Prerequisites:** Completion of six credit hours of FLAS at the 400-level.
FORENSIC ANTHROPOLOGY (FOAN)

FOAN 180 Survey of Physical Anthropology-GTSS3 Credits
Exploration of biological evolution and variation in humans, mankind's place in nature, origin, and antiquity as represented in the fossil record; recent studies of non-human primates; the beginnings of culture; application of physical anthropology in forensic science.
Corequisites: FOAN 180L.
Essential Learning Categories: Social and Behavioral Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

FOAN 180L Survey of Physical Anthropology Laboratory-GTSS31 Credit
Lab component required for FOAN 180.
Corequisites: FOAN 180.
Essential Learning Categories: Social and Behavioral Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

FOAN 232 Survey of Forensic Science2 Credits
Exploration of the relationship between science and society by noting the history and nature of the forensic scientist in aiding to resolve various legal issues and the role of the expert witness. Includes an overview of death investigation, scene investigation, and current forensic techniques.
Prerequisites: ENGL 111 and MATH 110.
Corequisites: FOAN 232L.

FOAN 232L Survey of Forensic Science Laboratory1 Credit
Exploration of basic forensic science techniques and laboratory practices. Topics include basic evidence handling, fingerprint development and comparison, blood spatter, anthropology, entomology, and ballistics.
Prerequisites: ENGL 111 and MATH 110.
Corequisites: FOAN 232.

FOAN 280 Crime Scene Processing2 Credits
Introduction to crime scene processing as rooted in the scientific method. Discussion of the documentation, recognition, collection, and preservation of evidence. Evidence development techniques used in the field will also be discussed, as well as the collection and preservation of evidence. The course includes an introduction to crime scene photography.
Prerequisites: ENGL 111 or higher and MATH 110 or higher.
Corequisites: FOAN 280L.

FOAN 280L Crime Scene Processing Laboratory1 Credit
Application of skills in the documentation, recognition, collection, and preservation of evidence. Evidence development techniques used in the field will also be discussed. An introduction to crime scene photography.
Prerequisites: ENGL 111 or higher and MATH 110 or higher.
Corequisites: FOAN 280.

FOAN 296 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

FOAN 350 Forensic Anthropology3 Credits
Introduction to forensic anthropology. Development of skills associated with analyzing skeletal remains, including estimating the sex, age, ancestry, and stature of the unknown individual from the skeleton. This course gives the student an overview of techniques to complete an osteological profile.
Prerequisites: FOAN 232 or FOAN 180.

FOAN 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

FOAN 475 Human Remains Detection and Recovery for Medico-Legal Investigations3 Credits
Archaeological techniques applied to detection and recovery of recent human remains. Includes practical experience of approximately 6 hours on an announced date.
Prerequisites: BIOL 410, or experience in law enforcement or a coroner's office and permission of instructor.

FOAN 480 Professional Issues in Forensic Science3 Credits
Exploration of professional issues specific for forensic science practitioners. Topics include problems seen with forensic practitioners and in forensic science facilities, the organizations of scientific area committees (OSACs), admissibility of forensic evidence, courtroom testimony, and report writing. Ethical dilemmas are presented and discussion centers on their resolution. Standards of ethics codified by professional forensic organizations are presented.
Prerequisites: FOAN 280/FOAN 280L, and junior or senior standing.

FOAN 499 Internship1-6 Credits
Opportunities to apply theoretical principles in a structured research or organizational environment. Required clock hours dependent upon credit hours.
Prerequisites: Junior or senior status, BIOL 410, permission of instructor, Hepatitis B vaccinations, and a TB skin test before and after class. Course may be repeated for a maximum of 15 credit hours. Course may be taken multiple times up to maximum of 15 credit hours.
GEOGRAPHIC INFORMATION SYSTEMS TECHNOLOGY (GIST)

GIST 305 Cartography for GIS1 Credit
Introduction to maps as tools for communication and analysis of locationally-related information.

GIST 321 Introduction to Remote Sensing2 Credits
Fundamentals of remotely sensed data, with emphasis on processing and interpretation of Landsat satellite imagery. Two one-hour lectures and one two-hour laboratory per week. 
Prerequisites: GIST 332/GIST 332L. 
Corequisites: GIST 321L.

GIST 321L Introduction to Remote Sensing Laboratory1 Credit
Lab component required for GIST 321. 
Prerequisites: GIST 332/GIST 332L. 
Corequisites: GIST 321L.

GIST 332 Introduction to Geographic Information Systems2 Credits
Fundamentals of GIS and digital mapping, including basic GIS skills and an introduction to geospatial databases and analyses. Two one-hour lectures and one two-hour laboratory per week. 
Prerequisites: GIST 305 or GEOG 131. 
Corequisites: GIST 332L.

GIST 332L Introduction to Geographic Information Systems Laboratory1 Credit
Lab component required for GIST 332. 
Prerequisites: GIST 305 or GEOG 131. 
Corequisites: GIST 332L.

GIST 375 Global Positioning Systems for GIS2 Credits
GPS techniques and applications as they relate to GIS data collection. 
Prerequisites: GIST 332/GIST 332L. 
Corequisites: GIST 375L.

GIST 375L Global Positioning Systems for GIS Laboratory1 Credit
Lab component required for GIST 375. 
Prerequisites: GIST 332/GIST 332L. 
Corequisites: GIST 375.

GIST 422 GIS Data Management and Editing2 Credits
Further exploration of GIS, involving creating, editing, and managing geospatial data and working with different types of GIS software. Two one-hour lectures and one two-hour laboratory per week. 
Prerequisites: GIST 332/GIST 332L. 
Corequisites: GIST 422L.

GIST 422L GIS Data Management and Editing Laboratory1 Credit
Lab component required for GIST 422. 
Prerequisites: GIST 332/GIST 332L. 
Corequisites: GIST 422.

GIST 432 Spatial Analysis and Modeling in GIS2 Credits
Exploration of GIS techniques and analysis with emphasis on raster-based GIS technology, processing, and geospatial analysis. Two one-hour lectures and one two-hour laboratory per week. 
Prerequisites: GIST 332/GIST 332L. 
Corequisites: GIST 432L.
GEOGRAPHY (GEOG)

GEOG 102 Human Geography-GTSS23 Credits
Introduction to spatial dimensions of the human world. Demography, human settlements and land use, political and economic systems, ethnicity, religion, and language examined from a spatial perspective.
Essential Learning Categories: Social and Behavioral Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

GEOG 103 World Regional Geography-GTSS23 Credits
Survey of world geography by major world regions including an analysis of the physical elements, the inhabitants, and human occupancy patterns and an evaluation of the potential of each region for sustaining human populations.
Essential Learning Categories: Social and Behavioral Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

GEOG 131 Introduction to Cartography3 Credits
Introduction to maps as tools for communication and analysis of locationally related information, including an introduction to concepts in Geographic Information Systems (GIS) and Global Positioning Systems (GPS).

GEOG 196 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

GEOG 296 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

GEOG 341 GIS for Social Scientists2 Credits
Applications of GIS for social science analyses, including use of open-source data (such as US Census data); collecting new data, creating and converting data to GIS formats, and the practical use of physical and/or environmental GIS data in social science applications.
Prerequisites: GEOG 131, GIST 332, and GIST 332L.
Corequisites: GEOG 341L.
Terms Typically Offered: Spring.

GEOG 341L GIS for Social Scientists Lab1 Credit
Applications of GIS for social science analyses, including use of open-source data (such as US Census data); collecting new data, creating and converting data to GIS formats, and the practical use of physical and/or environmental GIS data in social science applications.
Prerequisites: GEOG 131, GIST 332, and GIST 332L.
Corequisites: GEOG 341.
Terms Typically Offered: Spring.
GEOL 100 Survey of Earth Science-GTSC23 Credits
Physical makeup of the earth, its history, and geology. One field trip is required. Intended for students with majors other than one of the sciences.

Essential Learning Categories: Natural Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
Fees: Yes.

GEOL 103 Weather and Climate-GTSC23 Credits
Non-mathematical introduction to elements of local and global weather: the atmosphere, cloud formation, precipitation, seasons, optical phenomena and violent storms. Students practice making 24-hour weather forecasts.

Essential Learning Categories: Natural Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

GEOL 104 Oceanography-GT-SC23 Credits
Non-mathematical introduction to the scientific study of the ocean. While the course focuses on the hydrosphere subsystem of the Earth System, the atmosphere, cryosphere, lithosphere and biosphere interrelationship with the hydrosphere are also examined.

Essential Learning Categories: Natural Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

GEOL 105 Geology of Colorado-GTSC23 Credits
Introduction to minerals, rocks, geologic time scale and basic geologic terms, followed by geology of Colorado taught with the aid of movies and slides. A one-day field trip is required.

Essential Learning Categories: Natural Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
Fees: Yes.

GEOL 106 Introduction to Dinosaurs-GT-SC23 Credits
Introduction to the study of dinosaurs, from geological, biological and historical perspectives. Intended for students interested in how different areas of science can be applied to a subject of strong human interest. Includes two full-day field trips to local dinosaur quarries and museums.

Essential Learning Categories: Natural Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
Fees: Yes.

GEOL 107 Natural Hazards and Environmental Geology-GTSC23 Credits
Introduction to geologic aspects of our environment. Includes studies of natural hazards, global climate change, geologic resources and emphasizes human interactions with the environment.

Essential Learning Categories: Natural Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

GEOL 108 Water, People, and Environment-GTSC23 Credits
General introduction to the essential nature of water on Earth. Provides students with a comprehensive foundation in the water cycle, human use of water, water and the environment, the politics of water, and the critical issues surrounding water as a resource. Overview of global water issues as well as a focus on water in the American West, including the sources and uses of water, its importance as a resource, the critical issues of water conservation and scarcity, and the legal, political, economic and physical infrastructure that controls water in the American West.

Essential Learning Categories: Natural Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

GEOL 111 Principles of Physical Geology-GTSC13 Credits
Materials that make up the earth and surface and interior processes that interact to produce the present features of the earth. Laboratory: minerals, rocks, topographic maps, earth quakes, and landforms. Three lectures and one two-hour laboratory per week.

Corequisites: GEOL 111L.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

GEOL 111L Principles of Physical Geology Laboratory-GTSC11 Credit
Lab component required for GEOL 111.

Corequisites: GEOL 111.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
Fees: Yes.

GEOL 112 Principles of Historical Geology-GTSC13 Credits
Origin of the earth and life, changes recorded in rocks and fossils using the geologic time scale and techniques of dating to place events in sequence. Laboratory: topographic and geologic maps, hand samples of rocks, reconstruction exercises, and fossils to interpret regional and general geologic history. One all-day field trip is required. Four lectures and one two-hour laboratory per week.

Prerequisites: GEOL 111/GEOL 111L or GEOL 113/GEOL 113L or permission of instructor.

Corequisites: GEOL 112L.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

GEOL 112L Principles of Historical Geology Laboratory-GTSC11 Credit
Lab component required for GEOL 112.

Prerequisites: GEOL 111/GEOL 111L or GEOL 113/GEOL 113L or permission of instructor.

Corequisites: GEOL 112.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
Fees: Yes.

GEOL 113 Principles of Historical Geology-GTSC13 Credits
Origin of the earth and life, changes recorded in rocks and fossils using the geologic time scale and techniques of dating to place events in sequence. Laboratory: topographic and geologic maps, hand samples of rocks, reconstruction exercises, and fossils to interpret regional and general geologic history. One all-day field trip is required. Four lectures and one two-hour laboratory per week.

Prerequisites: GEOL 111/GEOL 111L or GEOL 113/GEOL 113L or permission of instructor.

Corequisites: GEOL 113L.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
Fees: Yes.

GEOL 113L Principles of Historical Geology Laboratory-GTSC11 Credit
Lab component required for GEOL 113.

Prerequisites: GEOL 111/GEOL 111L or GEOL 113/GEOL 113L or permission of instructor.

Corequisites: GEOL 113.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
Fees: Yes.
GEOL 113 Field-Based Introduction to Physical Geology-GTSC13 Credits
Introduction to minerals, rocks, Earth structures, mountain building processes, and other elements of physical geology for science and non-science majors. A majority of class time will be spent in the field (including one Saturday) observing and mapping geological features of Western Colorado. There will be some indoor lectures and laboratory work. This course is recommended for prospective K-12 teachers.
**Corequisites:** GEOL 113L.
**Essential Learning Categories:** Natural Science with lab - Both the lab and lecture must be completed
**Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum**

GEOL 113L Field-Based Introduction to Physical Geology Laboratory-GTSC11 Credit
Lab component required for GEOL 113.
**Corequisites:** GEOL 113.
**Essential Learning Categories:** Natural Science with lab - Both the lab and lecture must be completed
**Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum**

GEOL 116 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

GEOL 202 Introduction to Field Studies3 Credits
Mapping of several small areas using GPS, aerial photographs, and pace and compass methods. Profiles, cross-sections, and maps are prepared. Some unscheduled time is required to do mapping projects.
**Fees:** Yes.

GEOL 204 Computer Applications in Geology3 Credits
Quantitative methods of geologic data analysis with the data manipulated on the computer. Methodical approach with limited theoretical emphasis; statistical concepts; special programs for graphical presentation and analysis. Three lectures per week and computer laboratory time to complete exercises are required.
**Prerequisites:** GEOL 111/GEOL 111L or GEOL 113/GEOL 113L, and GEOL 112/GEOL 112L, and STAT 200 (recommended but not required) or permission of instructor.
**Fees:** Yes.

GEOL 250 Environmental Geology3 Credits
Geologic aspects of environmental problems involving natural processes and anthropogenic activities. Studies include landslides, earthquakes, flooding, coastal erosion, and land subsidence as well as environmental impacts of mineral resource extraction, soil erosion, fossil fuel consumption, and climate change.
**Prerequisites:** GEOL 100 or GEOL 104 or GEOL 105 or GEOL 111 or GEOL 113.
**Fees:** Yes.

GEOL 296 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

GEOL 301 Structural Geology3 Credits
Stress and strain in rock bodies. Description and occurrence of brittle and ductile rock structures. Laboratory: stereographic and graphical solution of structural problems, the study of maps and cross sections, and some field problems. Three lectures and one two-hour laboratory per week. Four one-day field trips are taken.
**Prerequisites:** GEOL 202, GEOL 204, and GEOL 111/GEOL 111L or GEOL 113/GEOL 113L, and MATH 130.
**Corequisites:** GEOL 301L.

GEOL 301L Structural Geology Laboratory1 Credit
Lab component required for GEOL 301.
**Prerequisites:** GEOL 202, GEOL 204, and GEOL 111/GEOL 111L or GEOL 113/GEOL 113L, and MATH 130.
**Corequisites:** GEOL 301.
**Fees:** Yes.

GEOL 325 Introduction to Engineering Geology3 Credits
Geologic principles applied to construction problems; case histories of major projects. Field trips and term project required.
**Prerequisites:** GEOL 111/GEOL 111L or GEOL 113/GEOL 113L or permission of instructor.
**Corequisites:** GEOL 331.
**Fees:** Yes.

GEOL 331 Crystallography and Mineralogy3 Credits
Morphology and classification of crystals; chemistry and genesis of minerals. Laboratory: identification of crystal systems and class, hand specimen identification of minerals, some X-ray diffraction work. Three lectures and one two-hour laboratory per week.
**Prerequisites:** GEOL 202, GEOL 204, and CHEM 131 or permission of instructor.
**Corequisites:** GEOL 331L.

GEOL 331L Crystallography and Mineralogy Laboratory1 Credit
Lab component required for GEOL 331.
**Prerequisites:** GEOL 202, GEOL 204, and CHEM 131 or permission of instructor.
**Corequisites:** GEOL 331.
**Fees:** Yes.

GEOL 333 Geology of the Canyon Country1 Credit
Three two-hour evening lectures with films and slides used to preview geology of the Colorado Plateau. A five-day field trip to the selected sites is conducted during spring break.
**Prerequisites:** GEOL 100, GEOL 105 or GEOL 112.
**Fees:** Yes.

GEOL 340 Igneous and Metamorphic Petrology3 Credits
Origin, composition and classification of igneous and metamorphic rocks. Laboratory: identification of igneous and metamorphic rocks in hand specimens. Three lectures and one two-hour laboratory per week.
**Prerequisites:** GEOL 331.
**Corequisites:** GEOL 340L.

GEOL 340L Igneous and Metamorphic Petrology Laboratory1 Credit
Lab component required for GEOL 340.
**Prerequisites:** GEOL 331.
**Corequisites:** GEOL 340.
**Fees:** Yes.

GEOL 351 Applied Geochemistry3 Credits
Geochemistry and its relationship to weathering and soils, geochemical surveys and prospecting techniques, reactions of contaminants with earth materials, and methods of reducing environmental degradation.
**Prerequisites:** CHEM 121/CHEM 121L, CHEM 122/CHEM 122L, and CHEM 123/CHEM 123L, and GEOL 111/GEOL 111L or GEOL 113/GEOL 113L.

GEOL 355 Basic Hydrology3 Credits
Introduction to physical hydrologic processes including precipitation, evapotranspiration, infiltration, runoff and subsurface flow. Examination of hydrologic modeling, problem solving, and monitoring techniques as well as water resource management issues at both local and global scales.
**Prerequisites:** MATH 113, or MATH 151 or permission of instructor.
GEOL 395 Independent Study
Course may be taken multiple times up to maximum of 4 credit hours.

GEOL 396 Topics
Course may be taken multiple times up to maximum of 15 credit hours.

GEOL 399 Special Problems
May be repeated for a maximum of four semester hours of credit.

GEOL 402 Applications of Geomorphology3 Credits
Classical physics applied to the study of the earth with emphasis on the origin of the earth, its gravitational, geomagnetic, and geothermal characteristics, seismicity, the dynamics of the earth's crust, plate tectonics, and continental drift. One field trip required.

Corequisites:
GEOL 404 or permission of instructor.

Fees:
Yes.

GEOL 402L Geomorphology Laboratory1 Credit
Lab component required for GEOL 402.

Corequisites:
GEOL 402.

Fees:
Yes.

GEOL 403 Introduction to Ground Water4 Credits
Relationships of ground water to other water sources, hydrologic cycle, water balance, hydrologic characteristics of rocks, hydraulics and equations defining flow, ground water quality, and contamination, exploration and measurement techniques (including geophysical procedures), state and federal regulations, and computer modeling. Laboratory: acquisition, analysis, and interpretation of ground water data.

Corequisites:
GEOL 111/GEOL 111L or GEOL 113/GEOL 113L, and MATH 151, and at least high school level biology, chemistry and physics. Three lectures and one two-hour laboratory per week.

Fees:
Yes.

GEOL 403L Introduction to Ground Water Laboratory1 Credit
Lab component required for GEOL 403.

Corequisites:
GEOL 111/GEOL 111L or GEOL 113/GEOL 113L, and MATH 151, and at least high school level biology, chemistry and physics. Three lectures and one two-hour laboratory per week.

Fees:
Yes.

GEOL 404 Geophysics3 Credits
Exploration for mineral and petroleum and preliminary investigation of sites for engineering and environmental projects with emphasis on refraction and reflection seismic, gravity, magnetic, electrical, electromagnetic ground-penetrating radar and radioactive methods. Laboratory: interpretation of data, computer applications, and field trips. Four lectures and one two-hour laboratory per week.

Corequisites:
GEOL 202 and GEOL 204, GEOL 111/GEOL 111L or GEOL 113/GEOL 113L, and PHYS 112, (calculus is recommended but not required) or permission of instructor.

Fees:
Yes.

GEOL 404L Geophysics Laboratory1 Credit
Lab component required for GEOL 404.

Corequisites:
GEOL 202 and GEOL 204, GEOL 111/GEOL 111L or GEOL 113/GEOL 113L, and GEOL 112/GEOL 112L, and PHYS 112, (calculus is recommended but not required) or permission of instructor.

Fees:
Yes.

GEOL 405 Solid Earth Geophysics3 Credits
Geophysics applied to the study of geophysics and geologic range of most groups of invertebrate fossils. Laboratory: field identifications of guide fossils. A one-day field trip is required. Two lectures and one two-hour laboratory per week.

Corequisites:
GEOL 411.

Fees:
Yes.

GEOL 411 Paleontology3 Credits
Seminars covering topics related to natural resources including water, soil, land, mineral and energy resources in the western United States. Guest speakers are invited from the academic community, industry or government agencies to give formal oral presentations followed by informal discussion with students and faculty. The course may be repeated for a maximum of four semester hours of credit.

Corequisites:
GEOL 404 or permission of instructor.

Fees:
Yes.

GEOL 411L Paleontology Laboratory1 Credit
Lab component required for GEOL 411.

Corequisites:
Beginning Biology course or permission of instructor.

Fees:
Yes.

GEOL 411L.6 Geology (GEOL)
GEOL 443 Field-Based Depositional Systems 3 Credits
Analysis of depositional systems with a strong field component. Lectures followed by weekly field trips will show students local examples of all common depositional systems.
Prerequisites: GEOL 202.
Corequisites: GEOL 443L.

GEOL 443L Field-Based Depositional Systems Laboratory 1 Credit
Lab component required for GEOL 443.
Prerequisites: GEOL 202.
Corequisites: GEOL 443.

GEOL 444 Sedimentology and Stratigraphy 3 Credits
Physical, chemical, and biological characteristics of sedimentary rocks, with emphasis on depositional processes and environments, diagenesis, stratigraphic sequences, and correlation. Laboratory emphasis is on description and classification of sedimentary rocks, analysis of depositional environments, and stratigraphic problems. One weekend field trip is required.
Prerequisites: GEOL 111 and GEOL 111L or GEOL 113 and GEOL 113L, GEOL 112, GEOL 112L, GEOL 202, GEOL 204, GEOL 331, GEOL 331L, CHEM 131, and CHEM 131L.
Corequisites: GEOL 444L.

GEOL 444L Sedimentology and Stratigraphy Laboratory 1 Credit
Lab component required for GEOL 444.
Prerequisites: GEOL 111 and GEOL 111L or GEOL 113 and GEOL 113L, GEOL 112, GEOL 112L, GEOL 202, GEOL 204, GEOL 331, GEOL 331L, CHEM 131, and CHEM 131L.
Corequisites: GEOL 444.
Fees: Yes.

GEOL 445 Geospatial Database and Design 2 Credits
Creating, editing, and managing geodatabases and working with topology for implementation with GIS. Term project is required. Two lectures and one two-hour lab per week.
Prerequisites: GIST 432 and GIST 432L.

GEOL 455 River Dynamics 3 Credits
Introduction to river forms and processes, including basic open-channel hydraulics, sediment transport, fluvial geomorphology and human interactions with river systems. Lab covers field, lab, and computer techniques to understand and model river forms and processes, including human interactions with river systems.
Prerequisites: GEOL 355 or permission of instructor.
Corequisites: GEOL 455L.

GEOL 455L River Dynamics Laboratory 1 Credit
Lab component required for GEOL 455.
Prerequisites: GEOL 355 or permission of instructor.
Corequisites: GEOL 455.

GEOL 480 Summer Field Camp 6 Credits
This course involves basic training in field geology. Students will perform a variety of geologic mapping exercises using topographic maps and air photos. Students will gain an appreciation of geologic maps - how they are made, the uncertainties and unknowns in mapping, and how mappers deal with them. Most mapping exercises are in deformed sedimentary strata and Quaternary surficial deposits. Some field exercises will involve collection and interpretation of hydrological data. The course is a six full weeks in duration, beginning immediately after conclusion of Spring Semester. Students should not expect to have weekends or holidays off. Students will also be camping out at least half the time or more during this course.
Prerequisites: GEOL 111/GEOL 111L or GEOL 113/GEOL 113L, GEOL 112/GEOL 112L, GEOL 301/GEOL 301L. GEOL 444/GEOL 444L recommended.
Fees: Yes.

GEOL 490 Seminar 3 Credits
Design, implementation, and completion of independent research project including proposal and report writing, and oral presentations. Critiques of geologic literature, data compilation, and periodic oral presentations are also required.
Prerequisites: Upper division standing.

GEOL 493 Co-operative Education 3-12 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

GEOL 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

GEOL 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

GEOL 497 Structured Research 1-3 Credits
Geological research under the direct guidance of a faculty member. Designed for junior and senior level students.
Prerequisites: Permission of instructor.
Course may be taken multiple times up to maximum of 9 credit hours.

GEOL 499 Internship 1-4 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
**GERONTOLOGY (GRNT)**

**GRNT 110 Introduction to Gerontology3 Credits**
Introduction to the field of gerontology - the multidisciplinary study of the biological, psychological, and social aspects of aging. Explores human aging with a focus on replacing myths with facts and understanding what happens to older adults’ bodies, minds, status in society, and social lives as they age. Attention is also given to programs and services for the elderly.

Terms Typically Offered: Fall/Spring.

**GRNT 125 Community Resources for Older Adults3 Credits**
Introduction to therapeutic activities for older adults in a wide variety of service settings.

Terms Typically Offered: Fall/Spring.

**GRNT 131 Hospice Care1 Credit**
Introduction to hospice and hospice care, including the hospice philosophy, palliative care, pain and symptom management, death and the dying process, grief and bereavement. Also addresses hospice eligibility, ethics and confidentiality, interdisciplinary team roles, communication, advanced directives, care-giving issues, self-care, and alternative therapies.

Terms Typically Offered: Fall/Spring/Summer.

**GRNT 165 Activity Director Training2 Credits**
Preparation to manage an activity department; do assessments and documentation; design, schedule, and implement appropriate activity programs; foster healthy resident and family dynamics; facilitate resident council meetings; manage personnel and resources.

Terms Typically Offered: Fall, Spring, Summer.

**GRNT 175 The Aging Mind2 Credits**
Exploration of the convergence of gerontology and recent brain science. Presents novel and combinatorial interventions based on recent research on aging brains. Introduces the emerging array of sustainable approaches to engage, stimulate, and enhance older minds.

Terms Typically Offered: Fall, Spring, Summer.

**GRNT 176 Cognitive Activity Design2 Credits**
Exploration of the challenges of applying emerging, evidence-based research in memory and aging to address real-life cognitive challenges. Includes design and demonstration of innovative cognitive activities that are supported by recent brain science findings.

Terms Typically Offered: Fall, Spring, Summer.

**GRNT 177 Arts and Cognitive Activity Design1 Credit**
Connection between the arts and brain health research to create art-related cognitive activities for older persons. Includes design and demonstration of creative arts as a sustainable cognitive activity for older persons. Explores why creative arts activities have a positive impact on an older person’s brain and how their design is supported by recent brain science findings.

Terms Typically Offered: Fall, Spring, Summer.

**GRNT 181 Exploring the Field of Aging2 Credits**
Introduction to the range of emerging professional opportunities in the field of aging. Explores and prioritizes potential career pathways. Includes career and labor market research; assessment of passions, interests, experiences and transferable skills; informational interviews, site visits, and networking; career and educational/training goal setting and planning.

Terms Typically Offered: Fall, Spring, Summer.

**GRNT 207 Ethics and Aging3 Credits**
Investigation of central ethical issues pertaining to the care of elderly patients. Explores various ethical principles and frameworks and their application to various ethical issues and dilemmas that arise in caring for the elderly. Identifies ethical issues in caring for the elderly and helps develop more proficiency in ethical decision making.

Terms Typically Offered: Fall, Spring, Summer.

**GRNT 220 Law and Ethics for Health Professions2 Credits**
Introduction to the study and application medical-legal concepts in medical careers. This course seeks to establish a foundation for ethical behavior and decision making in health professions.

Terms Typically Offered: Fall, Spring.

**GRNT 233 Supporting End of Life3 Credits**
Knowledge and skills for health care workers, caregivers, religious and spiritual counselors, social workers, fiduciaries, and family members to support the end of life process with dying persons and their families. Explores the physical, emotional, spiritual, legal, and financial aspects of dying, as well as grief and bereavement.

Terms Typically Offered: Fall, Spring, Summer.

**GRNT 235 Introduction to Dementia Care3 Credits**
Issues related to the care of older adults presenting behavioral and cognitive challenges, using a person-centered, person-directed approach. Introduces students to assessment, treatment and care of persons experiencing dementia, problematic mental health conditions, and the dying process.

Terms Typically Offered: Fall, Spring, Summer.

**GRNT 236 Dementia Care Practices1 Credit**
Approaches to advanced behavioral and cognitive issues, based on realistic case studies in a variety of settings. Includes assessing appropriate long term care options for memory care, problem solving, functional levels and other challenges, managing surveys, responding to deficiencies, problem solving repetitive incident reports, implementing fall prevention programs, and developing family education and support programs.

Terms Typically Offered: Fall, Spring, Summer.

**GRNT 237 End of Life Therapies/Practices1 Credit**
Focus on a specific therapeutic approach appropriate for end of life care and exploration of a variety of strategies and activities designed to augment end of life through reaching palliative care goals and enhancing the quality of life for the dying person and their caregivers.

Terms Typically Offered: Fall, Spring, Summer.

**GRNT 240 Care and Service Coordination3 Credits**
Overview of professional standards, responsibilities, and skills required for care managers, information and resource specialists, advocates, and service coordinators working with older adults, persons with disabilities, and their families. Includes the assessment process, care planning, resource management, service provider and financial coordination, documentation and accountability, ethics and confidentiality, advocacy, and evaluation. Introduces strength-based, person-centered, and empowerment models.

Terms Typically Offered: Fall, Spring, Summer.

**GRNT 245 Health and Aging3 Credits**
Investigation of the major issues and concepts that deal with the study of the aging process. It will explore the demographic, social, and economic factors in aging as well as the effects of physical change and psychological behavior upon later life.

Terms Typically Offered: Fall, Spring.
GRNT 247 Applied Legal and Policy Issues in Aging 3 Credits
Introduction to legal and policy issues affecting older adults and their families, as well as care providers. Focuses on how Medicare, Medicaid mental health, veteran’s services and abuse protective services contribute and protect older adults as well as areas where services may be lacking.
Terms Typically Offered: Fall, Spring.

GRNT 250 Death: Cross-Cultural Perspectives 3 Credits
Interdisciplinary study of the cross-cultural variations regarding human responses to death and the differing cosmological implications these suggest. Death, a cultural universal, is addressed in its diversity from both anthropological and sociological perspective.
Terms Typically Offered: Fall, Spring, Summer.

GRNT 260 Technology for Aging Services 2 Credits
Role of technology in designing and developing devices and services for the aging population. This course explores ways of improving the quality of life, improving access to care, support for family and caregivers and reducing cost of care through technology.
Terms Typically Offered: Fall, Spring, Summer.

GRNT 270 Neurology of Memory Loss 2 Credits
Introduction to basic human neuroscience, leading to a discussion of brain diseases classified as Dementia.
Terms Typically Offered: Fall, Spring, Summer.

GRNT 280 Management of Senior Living Communities 3 Credits
Overview of senior housing and care, from congregate living to skilled nursing, from historical, philosophical and managerial perspectives. A focus will be on the role of health care delivery within seniors housing, with attention devoted to the determinants of quality care, various models of care, and the critical role of quality management.
Terms Typically Offered: Fall, Spring.

GRNT 294 Gerontology Professional Seminar 1 Credit
Practice reviewing and modifying career and educational/training goals; reassessing the occupational outlook and labor market; building a professional network; formulating mission and vision statements and other branding tools; developing master portfolios and job-specific resumes, websites, brochures, cards, and other job tools; preparing for behavioral job interviews; and creating Degree and Certificate presentations in ePortfolios that assess learning outcomes.
Terms Typically Offered: Fall, Spring, Summer.

GRNT 299 Internship 3 Credits
Development of practical experience, skills and professional direction in achieving their career goals, working under supervision in an approved worksite through an intentional internship.
Terms Typically Offered: Fall, Spring, Summer.
HEALTH SCIENCES (HSCI)

HSCI 101 Introduction to Health Care Professions 3 Credits
Explores the nature of services provided, opportunities within selected fields, and relationships of fields within health sciences. Concepts include: medical terminology, safety and accident prevention, professionalism, legal aspects, safety, communication and math skills, and infection control.

HSCI 295 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

HSCI 401 Health Informatics I - Data Analysis 2 Credits
Reviews statistical analysis, HIPPA, confidentiality, and terminology pertinent to health informatics.
Prerequisites: Permission of instructor.

HSCI 406 Health Informatics II: Project Design & Implementation 2 Credits
Explores application of knowledge and skills to selected health informatics project.
Prerequisites: Permission of instructor.

HSCI 501 Advanced Health Informatics I - Data Analysis 1 Credit
Reviews statistical analysis, HIPPA, confidentiality, and terminology pertinent to health informatics at the graduate level.
Prerequisites: Permission of instructor.

HSCI 506 Advanced Health Informatics II: Project Design and Implementation 2 Credits
Explores application of knowledge and skills to selected health informatics projects at the graduate level.
Prerequisites: Permission of instructor.
# HISTORY (HIST)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 101</td>
<td>Western Civilizations-GTHI13 Credits</td>
<td>3</td>
<td>Political, social, economic, and cultural history of Western mankind from ancient times to modern times.</td>
<td>HIST 101 or permission of the instructor.</td>
</tr>
<tr>
<td>HIST 102</td>
<td>Western Civilizations-GTHI13 Credits</td>
<td>3</td>
<td>Political, social, economic, and cultural history of Western mankind from ancient times to modern times.</td>
<td>HIST 101 or permission of the instructor.</td>
</tr>
<tr>
<td>HIST 131</td>
<td>United States History-GTHI13 Credits</td>
<td>3</td>
<td>History of the United States from Colonial period to modern times.</td>
<td>HIST 101, HIST 102 or permission of instructor.</td>
</tr>
<tr>
<td>HIST 132</td>
<td>United States History-GTHI13 Credits</td>
<td>3</td>
<td>History of the United States from Colonial period to modern times.</td>
<td>HIST 101, HIST 102 or permission of instructor.</td>
</tr>
<tr>
<td>HIST 202</td>
<td>Introduction to Historical Research3 Credits</td>
<td>3</td>
<td>An introduction to the methods and areas of historical research, with the intent of preparing students for research requirements of upper-division history courses.</td>
<td>6 hours selected from HIST 101, HIST 102, HIST 131, and HIST 132.</td>
</tr>
<tr>
<td>HIST 225</td>
<td>History of Colorado3 Credits</td>
<td>3</td>
<td>History of the state from pre-historic to modern times.</td>
<td>HIST 101, HIST 102 or permission of instructor.</td>
</tr>
<tr>
<td>HIST 296</td>
<td>Topics1-3 Credits</td>
<td>1-3</td>
<td>Course may be taken multiple times up to maximum of 15 credit hours.</td>
<td>HIST 101, HIST 102 or permission of instructor.</td>
</tr>
<tr>
<td>HIST 300</td>
<td>History of England to 16603 Credits</td>
<td>3</td>
<td>Examines the political, social, and cultural developments of England from the ancient period to the end of the English Civil Wars, with particular attention to England’s contributions to the Western heritage.</td>
<td>HIST 101.</td>
</tr>
<tr>
<td>HIST 301</td>
<td>History of Modern Britain3 Credits</td>
<td>3</td>
<td>Examines the political, social, and cultural history of Great Britain from the Restoration of the monarchy in 1660 to the modern era.</td>
<td>HIST 101.</td>
</tr>
<tr>
<td>HIST 302</td>
<td>History of Modern France3 Credits</td>
<td>3</td>
<td>France from the Revolution of 1789 to the present.</td>
<td>HIST 102 or permission of instructor.</td>
</tr>
<tr>
<td>HIST 303</td>
<td>History of Modern Germany3 Credits</td>
<td>3</td>
<td>Origins and development of the modern Germany nation-state from 1860 to the present.</td>
<td>HIST 102 or permission of instructor.</td>
</tr>
<tr>
<td>HIST 305</td>
<td>The Old South3 Credits</td>
<td>3</td>
<td>The uniqueness of the Antebellum South, the growth of Southern nationalism, and the politics of the Late National period.</td>
<td>HIST 131.</td>
</tr>
<tr>
<td>HIST 310</td>
<td>Latin American Civilization3 Credits</td>
<td>3</td>
<td>Historical development of Latin America from pre-Columbian times to the present.</td>
<td>HIST 102 or permission of the instructor.</td>
</tr>
<tr>
<td>HIST 315</td>
<td>American Indian History3 Credits</td>
<td>3</td>
<td>American Indian history from pre-Columbian America to the present with an emphasis on federal Indian policy. Case studies will also address the adaptation of Indian people to changing social and economic conditions.</td>
<td>HIST 131 and HIST 132.</td>
</tr>
<tr>
<td>HIST 316</td>
<td>American Slavery3 Credits</td>
<td>3</td>
<td>Exploration of the development of race slavery and an examination of slave life in colonial North America and the United States from Colonization through reconstruction.</td>
<td>HIST 131.</td>
</tr>
<tr>
<td>HIST 320</td>
<td>The American West3 Credits</td>
<td>3</td>
<td>The American West from pre-Columbian times through the Twentieth Century with special emphasis on the diverse cultures and ecological factors that have defined the region.</td>
<td>HIST 131, HIST 132, or permission of instructor.</td>
</tr>
<tr>
<td>HIST 330</td>
<td>History of 19th Century Europe3 Credits</td>
<td>3</td>
<td>Political, social, intellectual, and diplomatic forces operating in Europe between the French Revolution and World War I.</td>
<td>HIST 101 and HIST 102.</td>
</tr>
<tr>
<td>HIST 331</td>
<td>The 20th Century3 Credits</td>
<td>3</td>
<td>Investigation of the development of our modern world since World War I with emphasis on Europe and its role in that process.</td>
<td>HIST 101, HIST 102 or permission of instructor.</td>
</tr>
<tr>
<td>HIST 332</td>
<td>History of Modern Warfare3 Credits</td>
<td>3</td>
<td>War, its causes, consequences, and impact on history from the 18th century to the present.</td>
<td>HIST 101 and HIST 102.</td>
</tr>
<tr>
<td>HIST 333</td>
<td>The International History of the Cold War3 Credits</td>
<td>3</td>
<td>Exploration of the international ramifications of the Cold War, from the end of World War II to the collapse of the Soviet Union.</td>
<td>HIST 102 and HIST 132.</td>
</tr>
<tr>
<td>HIST 334</td>
<td>History of the British Empire3 Credits</td>
<td>3</td>
<td>Explores the origins, development, and decline of the British Empire from 1550 to 2000, with particular attention on the effects of empire on native peoples and the consequences of empire for Great Britain.</td>
<td>HIST 102.</td>
</tr>
<tr>
<td>HIST 340</td>
<td>History Of the Middle East3 Credits</td>
<td>3</td>
<td>History of the Middle East and North Africa from the period of pre-Islamic Arabia through modern times, including the Umayyad, Abbasid, and Ottoman empires.</td>
<td>HIST 101 and HIST 102.</td>
</tr>
<tr>
<td>HIST 342</td>
<td>The Early American Republic3 Credits</td>
<td>3</td>
<td>The social, cultural, intellectual and political developments in America from 1783-1850.</td>
<td>HIST 131.</td>
</tr>
<tr>
<td>HIST 344</td>
<td>The Age of Industry in America3 Credits</td>
<td>3</td>
<td>The social, intellectual, and political events in the United States from the end of the Civil War to the beginning of the Great Depression.</td>
<td>HIST 131, HIST 132, or permission of instructor.</td>
</tr>
</tbody>
</table>
HIST 345 History of Immigration, Race, and Ethnicity in America3 Credits
Exploration of the historical study of immigration, race, and ethnicity in the United States. Various approaches and unique methodologies in the study of these topics from early American history to the present. Investigation of the ways in which economic and racial considerations shaped Americans' debates about "fitness" for citizenship, freedom, and independence.
Prerequisites: HIST 131 or HIST 132.

HIST 346 The United States in the 1950's and 1960's3 Credits
The social, intellectual, and political Events in the U.S. form the end of WWII through the 1960s.
Prerequisites: HIST 131, HIST 132, or permission of instructor.

HIST 347 Global America: 1970-20003 Credits
The political and social implications of America as the dominant global power, from 1970 to the present.
Prerequisites: HIST 132.

HIST 350 Renaissance and Reformation3 Credits
Examines the political and social context of the Renaissance and Reformation.
Prerequisites: HIST 101.

HIST 355 Ancient and Medieval Cities3 Credits
The development (physical, social, political) of cities in the ancient and medieval periods and their role in early western civilization.
Prerequisites: HIST 101.

HIST 360 Medieval Europe3 Credits
Examines the political, social, and religious institutions of Medieval Europe (300-1475).
Prerequisites: HIST 101.

HIST 370 Early United States Women's History3 Credits
Historical survey of cultural, economic, and political contributions of American women from colonization to Reconstruction.
Prerequisites: HIST 131.

HIST 371 20th Century United States Women's History3 Credits
Historical survey of cultural, economic, and political contributions of American women from Reconstruction to the present.
Prerequisites: HIST 131 and HIST 132.

HIST 375 American Sport History3 Credits
An examination of American society from the Colonial era to the present through the lens of sport.
Prerequisites: HIST 131 or HIST 132. Both courses are recommended.

HIST 394 Junior Seminar in Historiography3 Credits
Examines the role of historiography in the historical discipline, with the intent of preparing students to undertake an historical research project. Topic varies by semester, depending upon specialty of instructor.
Prerequisites: HIST 101, HIST 102, HIST 132, and HIST 202.

HIST 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

HIST 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

HIST 400 The Soviet Union and Eastern Europe3 Credits
Imperial Russia, the Soviet Union, and Eastern Europe from 1900 to the present.
Prerequisites: HIST 101, HIST 102 or permission of instructor.

HIST 403 East Asia and the Modern World3 Credits
China, Japan, Korea, and Vietnam since 1840.
Prerequisites: HIST 101 and HIST 102, or permission of instructor.

HIST 404 Senior Seminar in Historical Research3 Credits
History-specific research with emphasis on utilization of primary documents and practice in conducting research and reporting results.
Prerequisites: HIST 202 and twelve hours of upper division History or permission of instructor.

HIST 405 Introduction to Public History3 Credits
Exploration of non-academic historical skills employed in museum work, archival management, and positions with historical societies and historic preservation agencies. Career opportunities will be examined.
Prerequisites: HIST 131, HIST 132, or permission of instructor.

HIST 406 History of the African Continent3 Credits
The development of African cultures from the ancient to modern periods, with particular attention to interaction with non-African cultures.
Prerequisites: HIST 101 and HIST 102, or permission of instructor.

HIST 409 Material Culture Studies3 Credits
Introduction to the field of material culture studies and engagement in hands-on work with a variety of historical artifacts.
Prerequisites: HIST 131 and HIST 132, or permission of the instructor.

HIST 410 Environmental History of the United States3 Credits
The evolution of public attitudes and governmental policies and practices relative to the wilderness, natural resource development, and the natural environment from colonial times to the present.
Prerequisites: HIST 131, HIST 132, or permission of instructor.

HIST 415 Colonial America3 Credits
Examines the development of colonial society in North America and the tensions that arose between Native American, European, and African people and cultures.
Prerequisites: HIST 131.

HIST 416 The American Revolution3 Credits
An overview of and perspectives on the causes and outcomes of the American Revolution.
Prerequisites: HIST 131.

HIST 420 Civil War3 Credits
The causes and outcomes of the American Civil War.
Prerequisites: HIST 131, or permission of instructor.

HIST 425 History of Sexuality3 Credits
Historical discussions on sexuality from the New World to present. Analysis of gender, race, ethnicity, class, and region in historical context.
Prerequisites: HIST 132.

HIST 430 The Ancient Mediterranean World3 Credits
The Mediterranean world from pre-classical times to the fall of the Roman Empire.
Prerequisites: HIST 101.

HIST 435 Classical Archaeology3 Credits
Examines the archaeological evidence for some of the ancient Mediterranean civilizations and how the historian uses archaeology to better understand the ancient world.
Prerequisites: HIST 101.

HIST 440 Early and Medieval Christianity3 Credits
Examines the historical development of Christianity through the middle ages, focusing on the social (marriage and family) and political (kingship) consequences of Christianity.
Prerequisites: HIST 101.

HIST 445 The Holocaust3 Credits
Exploration of the origins, implementation, and cultural representations of Nazi Germany's "Final Solution."
Prerequisites: HIST 102.
HIST 450 European History and Film 3 Credits
Examines the medium of film and how it shapes perceptions of European history. Focuses on the treatment of film as historical text. Postulates whether filmmakers are historians.
Prerequisites: HIST 101 and HIST 102.

HIST 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

HIST 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

HIST 499 History Internship 1-3 Credits
Experience with historical work in settings outside the university community, including museums, archives, and local, state, and federal agencies. Internship must be arranged during the semester prior to the field experience.
Prerequisites: Nine upper division hours in history, junior status, and permission of instructor.

HIST 501 Early American History: Foundation - Civil War 3 Credits
Graduate level seminar covering the first half of American history. This course will provide graduate level instruction to prepare students to teach a collegiate level introductory course in early American history.
Prerequisites: Admission into Social Sciences Graduate Certificate Program.

HIST 502 Late American History: Civil War - Modern U.S. 3 Credits
Graduate level seminar covering the second half of American history. This course will provide graduate level instruction to prepare students to teach a collegiate level introductory course in modern American history.
Prerequisites: Admission into Social Sciences Graduate Certificate Program.

HIST 510 Early European History: Ancient - Reformation 3 Credits
Graduate level seminar covering the first half of European history. This course will provide graduate level instruction to prepare students to teach a collegiate level introductory course in early European history.
Prerequisites: Admission into Social Sciences Graduate Certificate Program.

HIST 511 Modern European History: Reformation - 20th Century 3 Credits
Graduate level seminar covering the second half of European history. This course will provide graduate level instruction to prepare students to teach a collegiate level introductory course in modern European history.
Prerequisites: Admission into Social Sciences Graduate Certificate Program.
HONORS (HNRS)

HNRS 196 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

HNRS 396 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

HNRS 496 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

HNRS 498 Honors Thesis: 3 Credits
Course may be taken multiple times up to maximum of 9 credit hours.
HOSPITALITY MANAGEMENT (HMGT)

HMGT 101 Travel Industry I 3 Credits
Introduction to tourism and its relationship to the business world, an overview of all sectors of business and the components of the travel, tourism, and hospitality industry. Travel methods, destination resorts, and other businesses which serve the traveler are evaluated. A requirement for all Hospitality Management students.

HMGT 102 Travel Industry II 3 Credits
Evaluation of job opportunities in the travel, recreation, and hospitality fields. Travel trends, feasibility studies, and marketing techniques are analyzed. Students are provided an opportunity to make preparations and acquire skill instructions for work in the student’s career objective. Field trips and visiting lecturers are included.
Prerequisites: HMGT 101 or permission of instructor.

HMGT 103 Travel and Tourism Marketing Techniques 3 Credits
Interpretation of marketing problems, strategies, and techniques of industries engaged in serving the traveler, methods of identifying potential markets, preferences, and likely responses to promotional programs of private and governmental travel entities. Required of all Hospitality Management students. MARK 231 recommended for baccalaureate students.
Prerequisites: HMGT 101 or permission of instructor.

HMGT 199 Employment Concepts 1 Credit
Introduction of the concepts of employment in conjunction with the internship experience. It will provide students with an opportunity to share their concerns with the instructor and other students, allow employers to discuss the internship with students and assist the student in developing his or her career goals. The student will enroll in this course the spring semester immediately preceding the summer they intend to do their HMGT 299 Internship.
Prerequisites: HMGT 101.
Course may be taken multiple times up to maximum of 6 credit hours.

HMGT 200 Management and Supervisory Skills for the Hospitality Industry 3 Credits
Evaluates the supervisory and management processes through a comprehensive overview of how these processes relate to specific hospitality industry applications.
Prerequisites: HMGT 101 or permission of instructor.

HMGT 201 Management in the Travel Industry I 3 Credits
An opportunity to explore operating techniques and problems of the major industries involved in tourism, travel, and hospitality through the eyes of the operating manager. Specific skills used within various industries are developed.
Prerequisites: HMGT 200 or permission of instructor.

HMGT 211 Travel Destinations 3 Credits
For the individual who plans to work, study, or travel internationally including the professional who is, or plans to be, part of the travel industry. Life styles and current local aspects in foreign destinations are considered and guest lecturers are included. Open to all students but strongly recommended for Hospitality Management students.

HMGT 215 Computerized Reservations 3 Credits
An introductory course providing an overview of operation of a computerized reservations system.
Prerequisites: HMGT 101 and HMGT 200.

HMGT 217 Hotel Operations 3 Credits
Introductory course providing an overview of the operation of a hotel front office. This will include the use of the personal computer and state-of-the-art software for reservations, check-in, check-out and creating the daily report.
Prerequisites: HMGT 101.

HMGT 218 Housekeeping Operations 3 Credits
Comprehensive overview of managing housekeeping operations in the lodging industry including practical applications to industry segments and impact on capital expenditures.
Prerequisites: HMGT 101 or permission of instructor.

HMGT 241 Food and Beverage Operations 3 Credits
Comprehensive overview of management processes in food and beverage operations including site visits and industry guest lecturers.
Prerequisites: HMGT 101 or permission of instructor.

HMGT 295 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

HMGT 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

HMGT 299 Internship 1-12 Credits
Classroom studies combined with salaried work in an experience which relates to the student’s career goal. Only for, and required of, Hospitality Management students. Credit not available through competency or challenge.
Prerequisites: HMGT 200, GPA of 2.00 or higher, or permission of instructor.
Course may be taken multiple times up to maximum of 6 credit hours.

HMGT 310 Travel and Tourism Marketing Techniques 3 Credits
Interpretation of marketing problems, strategies, and techniques of industries engaged in serving the traveler. Study will include advanced methods of identifying potential markets, preferences and likely responses to promotional programs of private and public travel entities. Required of all Hospitality Management majors.
Prerequisites: HMGT 101, MARK 231 or permission of instructor.

HMGT 350 Private and Commercial Recreation Systems 3 Credits
Profit-based recreation industry, including managing the recreation enterprise, economic feasibility studies, small business entrepreneurship, market characteristics, professional opportunities, and trade association research and publications.
Prerequisites: HMGT 101 and MANG 201.

HMGT 351 Community Tourism Systems 3 Credits
Community as a tourist destination area with concentration on identification of linkages between tourism industries and local economies, and the process of developing and managing park and recreation resources to serve the tourist.
Prerequisites: HMGT 101, HMGT 200, MANG 201.

HMGT 352 Public Recreation Systems 3 Credits
National and state outdoor recreation resource management systems including a variety of administrative tools applicable to operation and maintenance as well as comprehensive discussion of legislation, land use policy, forest recreation planning, and governmental designation programs.
Prerequisites: HMGT 101, HMGT 200, MANG 201.
HMGT 370 Managing Quality Service3 Credits
Introduction of quality service management necessary for the overall management process to be successful. This course emphasizes a sound set of principles for service management with application to operations, marketing, and human resources. Practical applications, case studies and a service audit project are included.
Prerequisites: Junior standing.
Terms Typically Offered: Spring.

HMGT 396 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

HMGT 400 Hospitality Security and Safety3 Credits
Individualized security programs. Security and safety equipment and procedures. Guest protection, asset protection, risk management, loss prevention, and OSHA regulations for lodging properties.
Prerequisites: BUGB 349.

HMGT 410 Hospitality Facilities Management3 Credits
Hotel or restaurant physical plant management. Interface with engineering and maintenance departments.
Prerequisites: HMGT 101 and HMGT 200, or permission of instructor.

HMGT 450 Strategic Hospitality Sales and Marketing3 Credits
Strategic and operating sales and marketing plans for hospitality properties. Includes development of a sales and marketing plan as a semester project.
Prerequisites: MARK 231 or permission of instructor.

HMGT 470 Hospitality Management Strategies3 Credits
Comprehensive overview of major hospitality industry management segments. Includes management strategies adapting to the rapidly changing hospitality industry environment.
Prerequisites: HMGT 101, HMGT 200, HMGT 410, HMGT 450, or permission of instructor.

HMGT 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

HMGT 496 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

HMGT 499 Internship1-12 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
HUMAN RESOURCE MANAGEMENT (HRMA)

HRMA 371 Human Resource Management 3 Credits
Principles and applications of basic human resource management (HRM). Survey of the HRM functions in organizations. Topics include staffing, training and development, compensation, safety and health, employee and labor relations, and employee performance management.
Prerequisites: MANG 201, junior or senior standing, or permission of instructor.

HRMA 372 Employment Assessment 3 Credits
Knowledge and skills necessary to effectively analyze and forecast organizational staffing requirements, assess, recruit and select candidates, and effectively retain employees in today’s complex organizations. Legal aspects of staffing process emphasized.
Prerequisites: HRMA 371.

HRMA 373 Human Resource Management, Leadership, Ethics, and Social Responsibility 3 Credits
Review of literature related to Human Resource Management (HRM) and leadership, ethics, and corporate social responsibility. Review articles and books related to the responsibility of HRM leaders and their significant influence on organizational practices, leadership, ethical behavior and corporate social responsibility.
Prerequisites: HRMA 371 or permission of instructor.

HRMA 475 Compensation and Reward Systems 3 Credits
Prerequisites: HRMA 371, and HRMA 372 (may be taken concurrently with permission of instructor).

HRMA 478 Advanced Human Resource Management 3 Credits
Capstone course for HRM concentration. Expanded examinations of human resource topics such as performance appraisal, sexual harassment, religion and spirituality in the workplace, compensation, and labor relations. Reviews current topics in HRM providing a practical application of topics covered in other HRM courses as well as current issues.
Prerequisites: HRMA 371, HRMA 372, HRMA 373, HRMA 475, and senior status.

HRMA 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

HRMA 520 Human Resource Management 3 Credits
Provides an in-depth study of the effective use and adaptation to the human resources of an organization through the management of people-related activities. The focus is on the core responsibilities and activities of the HR manager. Also included is a detailed review of current statutes and regulations affecting the HR field.
HUMANITIES (HUMA)

HUMA 196 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

HUMA 201 Field Studies in Humanities 1-3 Credits
Study/travel tours of varying lengths in the United States and foreign countries to acquaint students in some depth with particular aspects of world culture (language, the arts, literature, etc.) both contemporary and historical.

HUMA 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

HUMA 300 History and Development of Books 3 Credits
History and development of the book from the development of the alphabet to the present in the context of changing technologies and various social, cultural, and economic influences.
Prerequisites: Junior or senior status, or permission of instructor.

HUMA 301 Field Studies in Humanities 1-3 Credits
Prerequisites: Junior or above standing.

HUMA 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

HUMA 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

HUMA 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

HUMA 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

HUMA 499 Internship 8 Credits
See faculty advisor for details.
Course may be taken multiple times up to maximum of 15 credit hours.
INTERNATIONAL STUDIES (INTS)

INTS 101 Introduction to International Studies 3 Credits
Introduction to concepts, paradigms and theories used to describe and explain International Studies. Attention given to the interdisciplinary nature of academic disciplines, peoples in cultural context, environments, education systems, world resources, social and economic institutions.

INTS 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
KINESIOLOGY-ACADEMIC (KINE)

KINE 100 Health and Wellness1 Credit
The presentation of information concerning the benefits, positive effects, assessment, and implementation of healthy life styles.

KINE 195 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

KINE 200 History and Philosophy of Sport and Physical Education3 Credits
Discusses the breadth, scope, and nature of the profession. Orientation to the history and philosophy of human performance and the factors that influence its evolution. Special consideration is given to the history of sport from antiquity to the present, particularly the Olympic Games.

KINE 203 Human Nutrition3 Credits
Introduction to the science of the effects of food on the body and the body's need for and utilization of essential nutrients.

KINE 205 Introduction to Sport Management3 Credits
Survey and introduction to the field of sport management.

KINE 211 Methods of Lifetime, Individual, and Dual Activities3 Credits
Instructional content (scope and sequence) and teaching methodology related to various individual, dual and lifetime activities appropriate for K-12 physical education.

KINE 213 Applications of Physical Fitness and Exercise Prescription3 Credits
Exercise program design and prescription to meet individual needs, assess existing exercise programs, and evaluation of the effectiveness. Major components of cardio-respiratory endurance, muscular strength, muscular endurance, flexibility, and body composition discussed in detail. Prerequisites: KINE 100.

KINE 214 Methods of Team Activities3 Credits
Instructional content (scope and sequence) and teaching methodology related to various team activities appropriate for K-12 physical education.

KINE 250 Lifeguard Training3 Credits
Knowledge and skills required towards certification in lifeguard training.

KINE 251 Water Safety Instructor Course3 Credits
Instructional content (scope and sequence) and teaching methodology related to various aquatic activities.

KINE 256 Methods of Creative Play, Dance, Gymnastics, and Literacy3 Credits
Instructional content (scope and sequence) and teaching methodology related to creative play, dance, gymnastics and literacy activities. Prerequisites: KINE 211 or KINE 214.

KINE 260 School Health Education3 Credits
School health issues. Emphasis on development of proper health attitudes and practices, teaching methodology, and application of health knowledge and practice in school and public health situations. Prerequisites: KINE 100.

KINE 265 First Aid and CPR/AED for the Health Care Provider3 Credits
Knowledge and skills required to meet the needs of first aid and CPR situations that lead to obtaining valid First Aid and CPR/AED for the Health Care Provider cards.

KINE 296 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

KINE 297 Practicum1-2 Credits
Work-oriented instruction involving the implementation of classroom or laboratory experience under the direct supervision of a faculty member. Course may be taken 5 times for credit.

KINE 301 Health and Fitness Assessment3 Credits
Health and fitness testing and evaluation for children, athletes, and adults of all ages and abilities. Statistical techniques for exercise testing analyses. Prerequisites: KINE 213.

KINE 303 Physiology of Exercise3 Credits
The effects of various types of exercise upon human body structure and function. Three one-hour lectures and one two hour laboratory per week. Prerequisites: KINE 213 and BIOL 209/BIOL 209L. Corequisites: KINE 303L.

KINE 304 Methods of Exercise Instruction3 Credits
Practical experience in teaching safe and effective exercise for multiple populations. Prerequisites: KINE 213 and KINE 309.

KINE 307 Philosophy and Psychology of Coaching3 Credits
Fundamental philosophical and psychological principles related to coaching competitive athletic teams.

KINE 309 Anatomical Kinesiology3 Credits
Analysis of joint movement and muscular involvement during physical activity. Prerequisites: BIOL 209/BIOL 209L.

KINE 310 Methods of Exercise Instruction3 Credits
Practical experience in teaching safe and effective exercise for multiple populations. Prerequisites: KINE 213 and KINE 309.

KINE 320 Methods of Teaching Physical Education in Elementary Schools3 Credits
Exploration of the physical education content and teaching methods appropriate for elementary school education. Prerequisites: EDUC 115, EDUC 215, and KINE 256.

KINE 321 Physical Activity and Health in the Classroom3 Credits
Integration of health and physical activity concepts in the gym and classroom. For education majors.

KINE 333 Community Health3 Credits
Introduction to the areas of epidemiology, disease prevention and control, environmental health, health care, injury prevention, and safety education.

KINE 335 Sport in Society3 Credits
The sociology of sport, covering the cultural traditions, social values, and psychosocial experiences of sport from antiquity to today.

KINE 340 Sport Operations3 Credits
Theoretical background and practical applications designed to provide a framework for the management of resources associated with the planning, implementation and evaluation of festivals and special events.

KINE 342 Sport Law and Risk Management3 Credits
Legal duties, responsibilities, rights, duties and risk management techniques involved in sport.

KINE 345 Survey of Economics and Finance in Sport3 Credits
The economic, financial, and managerial accounting concepts for sport. Prerequisites: ECON 201.
KINE 350 Leadership and Ethics in Sport 3 Credits
This course is designed to give individuals an understanding of the various aspects of leadership as well as a survey course of the development and application of moral and ethical values in sport administration settings.

KINE 360 Motor Learning 3 Credits
Foundations of motor learning and the relation of motor performance to other aspects of behavior.

KINE 370 Biomechanics 3 Credits
Application of mechanical principles and anatomical structure to human movement using quantitative analysis methods. 
Prerequisites: BIOL 209/BIOL 209L and KINE 309.
Corequisites: KINE 370L.

KINE 370L Biomechanics Laboratory 1 Credit
Lab component required for KINE 370.
Prerequisites: BIOL 209/BIOL 209L and KINE 309.
Corequisites: KINE 370.

KINE 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

KINE 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

KINE 401 Organization/Administration/Legal Considerations in Physical Education and Sports 3 Credits
Organizational structures, administrative techniques, and legal considerations in physical education and sports.

KINE 402 Sport Marketing 3 Credits
The application of the principles of promotion and marketing to the sport and fitness industry including the areas of professional sports, corporate fitness, college/high school athletics, clubs and resorts, and others.
Prerequisites: MARK 231.

KINE 403 Advanced Strength and Conditioning 3 Credits
Emphasis on strength and conditioning program design and considerations based on activity and sport type. 
Prerequisites: KINA 128 or KINA 180-KINE 193, and KINE 303/KINE 303L.

KINE 404 Clinical Exercise Physiology and Advanced Exercise Prescription 3 Credits
Emphasis on clinical risk stratification for conducting health and fitness assessments and exercise program design for healthy individuals and individuals with medically controlled disease.
Prerequisites: KINE 303/KINE 303L.

KINE 405 Sports Nutrition 3 Credits
In-depth study of macronutrient metabolism as it relates to sport. Practical consideration in the use or non-use of carbohydrate supplements, vitamins, and/or other ergogenic aids. Three one-hour lectures per week.
Prerequisites: KINE 203, KINE 303, and KINE 303L.

KINE 406 Governance and Communication in Sport 3 Credits
The laws and rules governing various sport organizations from interscholastic to professional sport as well as the major means of sport communication.

KINE 408 Methods of Teaching Physical Education in Secondary Schools 3 Credits
Instructional strategies on a practical application level for prospective secondary physical education teachers preparatory to entry into student teaching. Field experiences are required to supplement lectures and discussions.
Prerequisites: EDUC 115, EDUC 215, and KINE 214.

KINE 411 Worksite Health Promotion 3 Credits
Covers worksite health promotion: its description, planning, implementation, marketing, and evaluation.
Prerequisites: KINE 213.

KINE 415 Physical Activity and Aging 3 Credits
The study of the dynamic relationship between physical activity and the aging process. Course focuses on the impact of physical activity on the physiological, psychological, and social well-being of older adults.
Prerequisites: KINE 303/KINE 303L.

KINE 420 Therapeutic Interventions 3 Credits
Review of the theoretical and scientific basis for, and the practical use of, contemporary therapeutic modalities and techniques utilized in the treatment of acute and chronic musculoskeletal injuries.

KINE 430 Medical Conditions and Pharmacology in Sports 3 Credits
An overview of the effects on physical activity resulting from the pre-existence of selected medical conditions and the use of pharmacological agents.

KINE 478 Clinical Experiences in Athletic Training V 2 Credits
Exploration of athletic training clinical experiences. Concentration on injury and illness evaluation and rehabilitation. Capstone course for the Athletic Training Program.
Prerequisites: KINE 468.

KINE 480 Inclusive Physical Activity 3 Credits
Study of physical activities, modifications, and adaptations for individuals with disabilities.

KINE 487 Structured Research 1-3 Credits
Capstone research experience with a formal manuscript and presentation. Topic, methods, and writing are to be guided and approved by a faculty member.
Prerequisites: KINE 303, senior standing, and permission of instructor.

KINE 494 Kinesiology Senior Seminar 1 Credit
Discussion and research of current issues in kinesiology and exercise physiology.
Prerequisites: Senior status.

KINE 494A Sport Management Senior Seminar 1 Credit
Discussion and research of current issues in sport management.

KINE 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

KINE 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

KINE 497 Pre-Internship in Physical Education 3 Credits
K-12 physical education majors study teaching and standard-based education in a physical education setting. One hundred twenty laboratory hours required.
Prerequisites: KINE 320, KINE 408, and senior standing.

KINE 499 Internship 3-12 Credits
Work experience obtained on a job where assignments are related to the student's specific concentration area within the Kinesiology degree.
Prerequisites: Kinesiology major, senior standing.

KINE 499A Sport Management Internship 3-12 Credits
Work experience obtained on a job where assignments are related to the student's specific concentration area within the Kinesiology degree.
Prerequisites: Kinesiology major, senior standing.
KINE 500 Facility and Equipment Management in Sport and Fitness3 Credits
Provides an in-depth study of the facilities and equipment used in a variety of sport and fitness settings, from public to private organizations, educational settings, athletics (interscholastic, intercollegiate, and professional sports) as well as commercial and corporate fitness centers. The focus is on designing, planning, funding, and maintaining a facility as well as the equipment necessary for its successful operation.

KINE 501 Research Methods3 Credits
Examination of the methods of research in kinesiology. Topics will include selection of the problem, hypothesis testing, historical research, descriptive research, experimental research, tools of research, and data interpretation.
Terms Typically Offered: Fall.

KINE 502 Sport Marketing3 Credits
Overview of marketing in sport. Emphasis on enabling the marketing manager to create strategies that "fit" products and services to an athletic department or sport organization's distinctive competencies and target market. Development of decision-making skills in marketing and overview of the marketing management process. Case studies in sport marketing address and exemplify issues in creating and implementing the marketing strategy.
Terms Typically Offered: Spring.

KINE 510 Event and Program Management in Sport and Fitness3 Credits
Duties and responsibilities of sport and fitness managers in creating policies, conducting events, and developing programs for sport or fitness organizations. Includes extensive examination of the topics and issues involved in the planning, funding, promotion, implementation, and evaluation of events and programs.

KINE 520 Management Policies and Regulations in Sport and Fitness3 Credits
Study of managerial policies and regulations to specific sport and fitness organizations to include educational, athletic, commercial and corporate entities. Topics will include the following: human resource management; labor relations; policy issues; sponsorship; budgeting; federal, state, and local statues; CHSAA and NCAA rules and guidelines; and professional organization policies. Specific attention will be given to compliance strategies.

KINE 530 Advanced Coaching for Basketball1 Credit
Examination of the trends, techniques, methods and philosophies in coaching basketball at skilled levels. Specific attention is given to video analysis and game management.

KINE 534 Advanced Injury Management for Coaches1 Credit
Specialized procedures and techniques involved in the prevention and management of common athletic injuries.

KINE 535 Sport in Society3 Credits
Exploration of role and impact of sports in our society from a social view. The course will discuss various sociological constructs as they impact all levels of sport participation, including amateur and professional team sports, and the challenges of these constructs in managing sport organizations.
Terms Typically Offered: Fall.

KINE 542 Sport Law and Ethics3 Credits
Focus on legal issues pertaining to amateur and professional sports. Tort law, negligence, contract, antitrust, labor, facility, exculpatory, and licensing law will be analyzed in the context of sports-related cases. This course examines moral and ethical issues within sport environments, including major social criticisms and constructs of sport, analysis of relevant ethical theories, and synthesizing ethical reasoning knowledge and skills.
Terms Typically Offered: Fall.

KINE 545 Sport Finance3 Credits
Study of the basic financial considerations for an effective sports management professional, including the financial challenges facing the profession, sources of funding, budgeting and financial statements, the concept of economic impact analysis, and the pros and cons of using public-sector funds.
Terms Typically Offered: Fall.

KINE 587 Research3 Credits
KINE 590 Thesis I3 Credits
Controlled learning experience supervised by faculty and guided by a contract that specifies student learning outcomes and assignments. Prior to registering, the student must meet with a Sport Management faculty member to approve a topic.
Prerequisites: KINE 501.
Terms Typically Offered: Spring.

KINE 591 Directed Readings3 Credits
KINE 592 Thesis II3 Credits
Continuation of controlled learning experience supervised by faculty and guided by a contract that specifies student learning outcomes and assignments. Prior to registering, the student must meet with a Sport Management faculty member to approve a topic.
Prerequisites: KINE 590.
Terms Typically Offered: Summer.

KINE 599 Internship3 Credits
KINESIOLOGY-ACTIVITY (KINA)

KINA 101 Beginning Swimming1 Credit
KINA 102 Intermediate Swimming1 Credit
KINA 103 Springboard Diving1 Credit
KINA 104 Water Polo1 Credit
KINA 105 Water Aerobics1 Credit
KINA 106 Beginning Scuba1 Credit
  Fees: Yes.
KINA 107 Advanced Scuba1 Credit
  Fees: Yes.
KINA 108 Canoeing1 Credit
KINA 109 Kayaking1 Credit
KINA 110 River Rafting1 Credit
KINA 111 Rock Climbing1 Credit
KINA 112 Hiking1 Credit
KINA 113 Beginning Bowling1 Credit
KINA 114 Intermediate Bowling1 Credit
KINA 115 Beginning Golf1 Credit
KINA 115A Disc Golf and Ultimate1 Credit
KINA 116 Intermediate Golf1 Credit
KINA 117 Badminton1 Credit
KINA 118 Karate1 Credit
KINA 118A Karate II1 Credit
KINA 119 Archery1 Credit
KINA 120 Backpacking1 Credit
KINA 121 Beginning Tennis1 Credit
KINA 121A Pickleball1 Credit
KINA 122 Intermediate Tennis1 Credit
KINA 123 Racquetball1 Credit
KINA 124 Intermediate Racquetball1 Credit
KINA 125 Handball1 Credit
KINA 126 Fitness Walking1 Credit
KINA 127 Physical Conditioning1 Credit
  Fees: Yes.
KINA 128 Intermediate Weight Training1 Credit
KINA 129 Weight Training1 Credit
KINA 130 Fitness1 Credit
KINA 131 Low-Impact Aerobics1 Credit
KINA 132 High-Impact Aerobics1 Credit
KINA 133 Downhill Skiing1 Credit
  Fees: Yes.
KINA 134 Snowboarding1 Credit
  Fees: Yes.
KINA 135 Telemark Skiing1 Credit
  Fees: Yes.
KINA 136 Body Shaping1 Credit
KINA 137 Fencing1 Credit
KINA 137A Intermediate Fencing1 Credit
KINA 138 Step Aerobics1 Credit
KINA 139 In-Line Skating1 Credit
KINA 140 Snowshoeing1 Credit
KINA 141 Mountain Biking1 Credit
KINA 142 Self-Defense1 Credit
KINA 143 Orienteering1 Credit
KINA 144 Pilates1 Credit
KINA 145 Wrestling1 Credit
KINA 146 Indoor Cycling1 Credit
KINA 147 Track and Field1 Credit
KINA 148 Gymnastics1 Credit
KINA 149 Broomball1 Credit
KINA 150 Adaptive Aquatics1 Credit
KINA 151 Adaptive Physical Activity1 Credit
KINA 152 Softball1 Credit
KINA 153 Adaptive Aquatics II1 Credit
KINA 154 Beginning Ice Hockey1 Credit
KINA 155 Beginning Ice Skating1 Credit
KINA 156 Soccer1 Credit
KINA 157 Adaptive Physical Activity II1 Credit
KINA 158 Speedball1 Credit
KINA 159 Aikido1 Credit
KINA 160A Nordic Skiing1 Credit
KINA 161 Two-Person Outdoor Volleyball1 Credit
KINA 162 Volleyball1 Credit
KINA 163 Intermediate Volleyball1 Credit
KINA 164 Beginning Basketball1 Credit
KINA 165 Intermediate Basketball1 Credit
KINA 166 Flag Football1 Credit
KINA 166A Touch Rugby1 Credit
KINA 167 Tai Chi1 Credit
KINA 168 Hatha Yoga & Relaxation II1 Credit
KINA 169 Hatha Yoga & Relaxation II1 Credit
KINA 170 Latin Rhythms1 Credit
KINA 171 Adaptive Skiing/Snowboarding1 Credit
  Fees: Yes.
KINA 174 Social Dance 1 Credit
KINA 175 Snorkeling/Free Diving 1 Credit
KINA 176 Horseback Riding 1 Credit
KINA 180A Varsity Men's Football 1 Credit
KINA 180B Varsity Men's Basketball 1 Credit
KINA 180C Varsity Men's Baseball 1 Credit
KINA 180D Varsity Men's Swimming 1 Credit
KINA 180E Varsity Men's Tennis 1 Credit
KINA 180H Varsity Men's Soccer 1 Credit
KINA 180J Varsity Men's Golf 1 Credit
KINA 180K Varsity Men's Track and Field 1 Credit
KINA 180M Varsity Men's Wrestling 1 Credit
KINA 180N Varsity Men's Lacrosse 1 Credit
KINA 180P Varsity Men's Cross Country 1 Credit
KINA 180Q Varsity Men's Hockey 1 Credit
KINA 181B Varsity Women's Basketball 1 Credit
KINA 181D Varsity Women's Swimming 1 Credit
KINA 181E Varsity Women's Tennis 1 Credit
KINA 181F Varsity Women's Volleyball 1 Credit
KINA 181G Varsity Women's Softball 1 Credit
KINA 181H Varsity Women's Soccer 1 Credit
KINA 181J Varsity Women's Golf 1 Credit
KINA 181K Varsity Women's Track & Field 1 Credit
KINA 181N Varsity Women's Lacrosse 1 Credit
KINA 181P Varsity Women's Cross Country 1 Credit
KINA 181R Varsity Women's Sand Volleyball 1 Credit
KINA 182A Varsity Coed Cheerleading 1 Credit
KINA 182B Varsity Coed Cycling 1 Credit
KINA 182C Varsity Coed Rodeo 1 Credit
KINA 182D Varsity Coed Alpine Skiing 1 Credit
KINA 182E Varsity Coed Nordic Skiing 1 Credit
KINA 396 Topics: 1-3 Credits

Course may be taken multiple times up to maximum of 15 credit hours.
LAND SURVEYING (SURV)

SURV 100 Introduction to Surveying/Field Work
3 Credits
Introduction to the basics of geomatics, including how to evaluate survey data accuracy and assess data limitations. Expectations of data analysis for engineering designs, property surveys, and construction layout staking will also be covered.

SURV 102 Surveying Calculations
3 Credits
Introduction to the mathematical concepts required for proper surveying, including the application of algebraic principles, trigonometry functions, and other concepts that are necessary in this field and in which proficiency is required by state regulations. Course work will include theory, errors and analysis, differentiation and trigonometric leveling, angles and directions, coordinate systems and calculations, and other relevant material.

SURV 200 Advanced Surveying Field Work
4 Credits
Introduction to surveying methodology, survey design, planning and observing, and real-time kinematics. Students will also explore geodesy, state plane coordinates and the concepts of least squares analysis of survey adjustments. The labs - either two 3-hour weekday labs or one 6-hour weekend lab - will enable students to understand and master the practical aspects of these important surveying elements.

SURV 203 Legal Aspects of Surveying
3 Credits
Exploration of records research and its importance in surveying, as well as understanding the public, private and quasi-public recorded and non-recorded record databases that establish land ownership and boundaries, easement boundaries, land-use rights and restrictions. Students will use these resources in applying surveying principles to both private and public lands.

SURV 204 Real Property Descriptions
2 Credits
Exploration of historical and current issues relevant to writing land descriptions and using those descriptions for the practicing surveyor. Students will also gain a working knowledge of the relationship between written descriptions and field survey data, as well as how to interpret historic descriptions and the underlying principles of producing descriptions.

SURV 205 Advanced Surveying Computations/Calculations
4 Credits
Introduction to advanced surveying computation concepts and procedures, including traverse error analysis, topographical surveying, mapping, and astronomical observations.

SURV 206 Property Law - Boundary Evidence
3 Credits
Introduction to the foundational Common Law knowledge relevant to the surveying profession, practical application of that law, documentation of survey evidence, and the laws of boundary location.

SURV 207 Surveying Ethics: An Overview of Ethical Expectations
2 Credits
Introduction to the surveyor’s liability, statutes of limitation as applied to the profession, and the surveyor’s role in court. Students will also understand the fundamental principles of real property law as applied to surveying with case studies reflecting common determinations of ownership and the surveyor’s judiciary role in real property ownership.

SURV 298 Internship/Capstone Project
4 Credits
Demonstrated proficiency in the required surveying-specific knowledge to pass the Colorado exams through an internship and delivery of a capstone project on a mutually agreed upon topic.
MACHINING/ MANUFACTURING (MAMT)

MAMT 101 Introduction to Manufacturing 2 Credits
The course is designed to give the student a broad overview of the world of manufacturing. The course will include people, materials, machines, design, organization, waste, quality, and other subjects which effect society and production of a product.

MAMT 102 Machining Fundamentals 1 Credit
Concentrated unit dealing with speeds and feeds of machines, materials, tooling, tapping, boring, and manufacturing processes.

MAMT 105 Print Reading and Sketching 2 Credits
Reading of blueprints and process sheets as used in industry, application of that information to various manufacturing processes.

MAMT 106 Geometric Tolerancing 2 Credits
Identification, interpretation, and application of the blueprint symbols (referred to as Geometric Tolerancing symbols) in machining and inspection operations.
Corequisites: MAMT 105 or permission of instructor.

MAMT 110 Gauging and Measuring Tools 1 Credit
Uses and techniques of inspection including micrometers, Vernier scales, instruments, hole gauges in surface plate work, finish of parts and overall inspection techniques.
Prerequisites: MAMT 106 or permission of instructor.

MAMT 115 Introduction to Machine Shop 3 Credits
Safety procedures: using bench tools, layout tools, power saws, and taps; sharpening general purpose drills, grinding lathe bits; and identifying and operating basic machines such as the bench grinder, drill press, band saw, and others. One hour lecture and three hours laboratory per week.

MAMT 120 Machine Technology I 4 Credits
Operation of engine lathes, milling machines and surface grinders. One hour lecture and five hours laboratory per week.
Prerequisites: Permission of instructor.

MAMT 125 Machine Technology II 4 Credits
Further development of skills acquired in MAMT 120. Emphasis will be placed on technical aspects of tooling and machining tolerances. One hour lecture and five hours laboratory per week.

MAMT 135 Job Shop Machining I 3 Credits
Production of machined parts from a shop blueprint, writing process sheets, and estimating machine time. Machining of parts may involve one or more machine operations. Machine time, paperwork, inspection, and accuracy will be emphasized. One hour lecture and three hours laboratory per week.
Prerequisites: Permission of instructor.

MAMT 145 Machine Maintenance 2 Credits
Maintaining, lubricating, and repairing machinery including making gib adjustments, selecting and using proper lubricants and selecting or manufacturing parts of making repairs with emphasis on workmanship and inspection. One hour lecture, one and one-half hours laboratory per week.
Prerequisites: Permission of instructor.

MAMT 148 CNC Applications 3 Credits
Introduction to Computer Numerical Control programming basics, CAM software and tooling used in today's manufacturing CNC Milling machines and CNC lathes.

MAMT 150 Introduction to Numerical Control 1 Credit
Numerical control/computerized numerical control machining, its advantages and how it operates. The course is designed as an informational unit for customized pre-employment training.

MAMT 170 Practical Applications 3 Credits
Students will gain a working knowledge in manufacturing through Co-op, internship, work experience or required lab work in industrial study if outside work cannot be acquired.
Prerequisites: Permission of instructor.

MAMT 196 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MAMT 207 Introduction to Statistical Process Control 2 Credits
Introduction to the philosophical and economic bases for statistical process control and its use; mathematical and non-mathematical SPC techniques with emphasis on application.

MAMT 230 Machine Technology III 4 Credits
Exploration of advanced machine operations including O.D. grinding, cutter tool grinding, gear cutting, indexing, and rotary table work with an emphasis on workmanship, accuracy, and inspection.

MAMT 240 Job Shop Machining II 3 Credits
Comprehensive capstone course utilizing all the machine tools in the machining laboratory. Further development of writing process sheets, estimating machine time, and performing final inspections on finished projects. Development of prototypes and reverse-engineering concepts using CNC machine tools and 3D printers. Final design presentation and written report.

MAMT 250 Process Systems Technology 2 Credits
Advanced concepts of the philosophical and economic bases for statistical process control and its uses; mathematical and non-mathematical SPC techniques with emphasis of application.
Corequisites: MAMT 250L.

MAMT 250L Process Systems Technology Laboratory 2 Credits
Advanced concepts of the philosophical and economic bases for statistical process control and its uses; mathematical and non-mathematical SPC techniques with emphasis of application.
Corequisites: MAMT 250.

MAMT 251 CNC Machining I 3 Credits
Exploration of computerized numerical control machining operations, including control of functions, programming format, CNC machining setup and operation.

MAMT 255 CNC Machining II 3 Credits
Further development of concepts introduced in MAMT 251. Emphasis of advanced operations of CNC machine tools.

MAMT 260 Properties of Materials 3 Credits
Exploration of the processes of smelting and refining various types of metals. Discussions and demonstrations on heat-treatment, hardness testing and molecular manipulation of metals.

MAMT 295 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MAMT 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
MANG 121 Human Relations In Business 3 Credits
Human side of organizations: morale, motivation, human needs, minorities as working partners, leadership styles, organizational environment, and other human forces having an impact on business structures.

MANG 201 Principles of Management 3 Credits
Management as the process of achieving organizational goals or objectives by and through others. Emphasizes functions performed by managers and how they are influenced by forces both within and outside the organization. Managers' use of resources will be investigated.

MANG 201A Principles of Management: Part 1 of 31 Credit
Introduction to the activities of management and decision making in the global environment, with an emphasis on leadership and managing change and innovation.

MANG 201B Principles of Management: Part 2 of 31 Credit
Introduction to management planning, goal setting, organizing, human resources, teams, and organizational behavior.

MANG 201C Principles of Management: Part 3 of 31 Credit
Introduction to management control, quality, the role of information technology, and electronic business.

MANG 221 Supervisory Concepts and Practices 3 Credits
For practicing or potential supervisors and managers who hold or will hold first-line to middle-level management positions. Focuses on the management functions of planning, organizing, staffing, directing, and controlling and their relation to the daily job of the supervisor.

MANG 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MANG 299 Internship 3-6 Credits
Practical workplace experience under the joint supervision of the employer and the internship coordinator. Designed for business majors working in the business environment.

MANG 301 Organizational Behavior 3 Credits
Human behavior, its causes and effects in organizational settings. Description of and development of an understanding of human behavior in such settings.

MANG 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MANG 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MANG 401 Strategic Consulting 3 Credits
Students are placed in the role of consultant for an area business furnishing management assistance to the small business community. Businesses benefit from the insight of student recommendations. Provides students practical training, supplementing academic theory by handling problems in a real business environment.

MANG 402 Advanced Problems in Small Business Operations I 6 Credits
Continuation of MANG 401.

MANG 410 Effective Workplace Communication 3 Credits
Application of communication methods including: personal selling, negotiation, interviewing, and individual and group presentations. Emphasis placed upon application of effective practices used in communicating in today's business world.

MANG 421 Credit and Collection Management 3 Credits
Consumer and commercial credit in relationship to the management of credit by business firms, legal aspects of credit extension and current legislation. Information on credit operations of business for both students of business and practicing businessmen.

MANG 422 Experiential Management: Student Run Business 3 Credits
Principles of developing/operating a functioning business. Track and analyze records of a student-run business. Analyze data, apply theory and practical experience to effect positive change. Work with CMU administration and government regulators to assure rules and regulations followed.

MANG 451 Career Research and Development 3 Credits
Principles and techniques involved in a job search with emphasis on conducting career research, identification of goals, preparing a job campaign, and elements of a job interview. Preparation of a job kit including a prospect list, resume, cover letter, advertisements, prospect letters, and sales and follow-up letters which can be used in a job search.

MANG 471 Operations Management 3 Credits
The use of resources in producing goods and services; concepts of planning, scheduling, and controlling productive activities and physical resources.

MANG 491 Business Strategy 3 Credits
Duties and responsibilities of decision makers in analyzing the organization, its operating environment and the subsequent development of objectives, policies, and long term planning for organizations. Includes complex cases taken from actual experiences in situations involving analysis, planning, and decision making. Required of all BBA and BS Accounting students. To be taken last semester of program.

MANG 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MANG 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MANG 499 Internship 1-9 Credits
Provides BBA students with an opportunity to learn more about management functions and activities through exposure to an actual business or agency environment. Observation and participation in management activities enable students to relate classroom theory to on-the-job experiences.

MANG 500 Advanced Management Theory 3 Credits
Designed to advance the student's understanding of management theories and the application of these theories to the business world. Contemporary issues will be discussed.
MANG 501 Operations Management 3 Credits

MANG 510 Leading Organizations 3 Credits
Designed to encourage the application of diverse conceptual and theoretical perspectives to the analysis and control of behavior in organizations. Practice in diagnosing organizational problems is gained by combining the use of theories, texts, readings, cases and exercise. The course focuses on problems related to perception, motivation, leadership, cultural diversity, interpersonal and group conflict, stress, work-family conflict, influence, decision-making, ethics, international management issues and change.

MANG 540 Advanced Quantitative Methods 3 Credits
Analytical models to support decision making. Topics include linear optimization, sensitivity analysis, linear regression, decision making under uncertainty, decision making under risk, project management, transportation and assignment methods, and forecasting.

MANG 590 Business Strategy 3 Credits
The capstone course in the MBA program. The purpose of this course is to develop an understanding of strategic management and the "how" and "why" of strategic decisions. Emphasis is also placed on how the manager goes about translating strategy into action and achieves integration in the organization. Integration involves the functional areas of management and how to balance the trade-offs from the perspective of strategic decision making at the top management level.

Prerequisites: Permission of instructor.
MARKETING  (MARK)

MARK 231  Principles of Marketing   3 Credits
Use and development of marketing strategy and the effects of buyer
motivation. Major functions of marketing, buying, selling, distribution,
pricing, advertising, and storage are studied. A contrast is made between
the two marketing institutions: wholesaling and retailing.

MARK 325  Consumer Behavior   3 Credits
Overview of the processes involved when individuals or groups select,
purchase, use or dispose of products and services to satisfy needs and
desires.
Prerequisites: MARK 231.

MARK 332  Promotion   3 Credits
Overview of the many ways in which goods, services, and ideas can be
promoted to consumers and businesses through advertising, public
relations, and publicity.
Prerequisites: MARK 231.

MARK 335  Sales and Sales Management   3 Credits
The salesperson as a counselor whose role is to help buyers make
better decisions. Professional salesmanship is recognized as an
integral function in modern society, with basic sales techniques studied
and practiced in sales presentations. The course is taught from a
management perspective.
Prerequisites: MARK 231.

MARK 340  Creating Marketing Materials   3 Credits
Overview and process development for creating marketing materials for
all supply chain stakeholders. Development and analysis of multi-faceted
levels of business marketing.
Prerequisites: MARK 231.

MARK 350  Marketing Research   3 Credits
Marketing research theory and techniques designed to educate the
student in the use of the scientific method, develop analytical ability,
present basic marketing research tools, and develop proficiency in the
art of writing research reports. Cases and actual research projects will be
utilized.
Prerequisites: CISB 241 or STAT 241.

MARK 360  Services Marketing   3 Credits
Application of marketing concepts and strategies for addressing
marketing problems and opportunities in the service sector (Finance,
Hospitality, and Healthcare).
Prerequisites: MARK 231, MARK 350 or permission of instructor. Course
will utilize case problems and an actual research project.

MARK 395  Independent Study   1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MARK 396  Topics   1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MARK 402  Sport Marketing   3 Credits
The application of the principles of promotion and marketing to the sport
and fitness industry including the areas of professional sports, corporate
fitness, college/high school athletics, clubs and resorts, and others.
Prerequisites: MARK 231.

MARK 432  Advanced Marketing   3 Credits
In-depth complex marketing problems confronting modern business.
Development of marketing strategy to allow the firm to progress toward
its corporate objectives.
Prerequisites: MARK 231 and MARK 350 or CISB 341.

MARK 450  Marketing Strategy   3 Credits
Examines the state-of-the-art in marketing strategy from both a practical
and theoretical perspective. Focusing on integrating a broad range of
marketing concepts, the emphasis is on setting realistic marketing
objectives, understanding marketing research concepts, demographic
market segmentation, and current marketing topics.
MASS COMMUNICATIONS (MASS)

MASS 110 Mass Media: Impact and History-GTAH23 Credits
Role played by media in everyday life and media’s social, economic, and historical influence on society.

Essential Learning Categories: Humanities
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

MASS 140 Media Theory Introduction3 Credits
Introduction to theories of Mass Communication. Exploration of theory constructs, audience research, effects of emerging media and technologies, and message content.
Prerequisites: MASS 110 or permission of instructor.

MASS 144 Multimedia Storytelling3 Credits
Journalism-based techniques and methods for modern storytelling of accurately written information through the use of the internet, video, and audio.
Prerequisites: MASS 110.

MASS 196 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MASS 213 Introduction to Media Writing and Reporting3 Credits
Fundamentals of news gathering and reporting through a variety of media. Exploration of ethical and legal aspects of journalistic endeavors.
Prerequisites: MASS 140.

MASS 251 Mass Media: Advertising and Promotions3 Credits
Fundamentals of media advertising and promotions. Consideration of research, analysis, strategy, advertising barriers, design, and perspective.
Prerequisites: MASS 140.

MASS 261 Audio Announcing and Production3 Credits
Exploration of the art and science of announcing for media and the importance and use of the spoken word in persuasive messages. Creation and execution of programs and formats for audio source distribution both traditional and emerging.
Prerequisites: MASS 140.

MASS 271 Video Production3 Credits
Fundamentals of electronic field production and non-linear editing with hands-on experience with broadcast-quality equipment. Creation and execution of productions involves videography, scripting, graphic layout and editing.

MASS 296 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MASS 310 Media Law and Ethics3 Credits
Ethical principles and laws affecting media. Includes study and application of ethics and laws involved in print, broadcasting, and emerging media.
Prerequisites: MASS 213.

MASS 313 Broadcast Journalism Reporting3 Credits
Introduction to broadcast writing styles and history. Specific applications for radio, television, and internet. Emphasis on formatting, newsgathering, interviewing, and researching.
Prerequisites: MASS 213.

MASS 315A Specialized Writing for Media: Science3 Credits
Specialty writing about science for various media platforms.
Prerequisites: MASS 213.

MASS 315B Specialized Writing for Media: Sports3 Credits
Specialized writing about sports for various media platforms.
Prerequisites: MASS 213.

MASS 315C Specialized Writing for Media: Health3 Credits
Specialty writing about health for various media platforms.
Prerequisites: MASS 213.

MASS 315D Specialized Writing for Media: Crime3 Credits
Specialty writing about crime for various media platforms.
Prerequisites: MASS 213.

MASS 317 Writing Opinion for Impact3 Credits
Persuasive and insightful writing. Subjects include public issues, supporting beliefs, analysis, and documentation for targeted audiences through broadcast, print, and internet/web.
Prerequisites: MASS 213.

MASS 342 Photojournalism I3 Credits
Fundamentals of camera techniques, qualities of print and digital images, history and ethics of photojournalism, uses of software in image acquisition and use, and development of esthetic values.
Prerequisites: MASS 213 or permission of instructor.

MASS 350 Public Relations Concepts3 Credits
Historical and theoretical approach to contemporary public relations with emphasis on the persuasion process and ethics, propaganda, and advertising techniques in mass media.
Prerequisites: MASS 213.

MASS 352 Print Design and Production for Editors3 Credits
Various essential processes and duties editors face in preparing articles, graphics, and photos for print publication - including digital design and pre-press, typography, press-ready PDFs, CMYK offset printing, writing headlines and cutlines, and meeting all expectations in the printed final product. Adobe InDesign also is introduced and utilized.
Prerequisites: MASS 213.

MASS 357 Documentary and News Producing3 Credits
Creation of multimedia content for students to develop their skills as producers, researchers, interviewers, writers, and videographers, as well as on-camera and voice talent. The focus of study will be on analyzing and practicing the aesthetic and technical elements of documentary and news content in order to create original stories for broadcast, print, and web.

MASS 372 TV Studio Production3 Credits
Combination of multi-camera studio and electronic field productions. Includes videography, live-editing, non-linear editing, graphic creation, audio manipulation and script writing, culminating in broadcast-quality programming.

MASS 387 Structured Research1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MASS 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MASS 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MASS 397 Practicum1 Credit
Practical experience with student media outlets under faculty advisor supervision or with CMU Sports Information. Practicum coordinator must be consulted in first week of term.
Prerequisites: MASS 140 and MASS 144 or permission of instructor.
Course may be taken 10 times for credit.
MASS 415 Advanced Media Writing and Reporting3 Credits
In-depth journalism writing and reporting course. Focuses on the development of long-form journalism pieces, including magazine features, public affairs reporting, news analysis, and news investigations using public records and interviews. Emphasis on fair and accurate reporting and writing under deadline, with critical attention paid to law and ethics.
Prerequisites: MASS 213.

MASS 417 Writing for Public Relations and Advertising3 Credits
Emphasizes copywriting function in public relations and advertising for organizations and agencies.
Prerequisites: MASS 213.

MASS 441 Emerging Media3 Credits
Experimentation with tools, techniques, and concepts of social and new media resulting in the creation of online content.
Prerequisites: MASS 213.

MASS 442 Photojournalism II3 Credits
Considers advanced skills necessary to capture and edit images to high aesthetic values, professionalism, news photography, photo illustration, creation of image portfolios for public display or potential employers, and use of image management software.
Prerequisites: MASS 342.

MASS 450 Public Relations Campaigns3 Credits
Campaigns and case histories presenting the scope of PR, research methodology, and audience targeting. Practical application of PR theory.
Prerequisites: MASS 213.

MASS 452 Designing for Brand and Message3 Credits
Publishing attractive and effective content. Includes designing print materials such as company newsletters, logos, brochures, magazines, as well as electronic publishing.

MASS 471 Advanced Video Production3 Credits
Emphasis on aesthetic values of electronic field productions and post-production projects. Builds upon concepts and skills acquired in MASS 271 to create and execute high quality video and creative productions for air and/or web use.
Prerequisites: MASS 271.

MASS 474 Seminar: Advanced Theory and Research3 Credits
Capstone course. Examination and exploration of mass communication theories. Focus on research and its importance to media disciplines and industries.
Prerequisites: MASS 213.

MASS 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MASS 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MASS 497 Practicum1 Credit
Practical experience with student media outlets under faculty advisor supervision or with CMU Sports Information. Practicum coordinator must be consulted in first week of term.
Prerequisites: MASS 397 or permission of instructor.
Course may be taken 10 times for credit.

MASS 498 Senior Project Portfolio1 Credit
Identification and preparation of projects that highlight Mass Communication skills, abilities, talents, and applications.
Prerequisites: MASS 213 and MASS 397.

MASS 499 Internship3-12 Credits
Work in media industry positions.
Prerequisites: At least junior standing with at least half of major requirements completed; MASS 213, MASS 310.
Course may be taken multiple times up to maximum of 15 credit hours.
MATH - FOUNDATIONS (MATC)

MATC 090 Introductory Algebra 4 Credits
Introduction to algebra with a review of basic arithmetic. Includes decimals, fractions, percentage, ratio, proportion, signed numbers, algebraic expressions, factoring, exponents and radicals, linear equations, functions and graphs.
Prerequisites: Accuplacer score of 45-60.

MATC 091 Intermediate Algebra 4 Credits
Further study in topics of algebra. Includes properties of real and complex numbers; laws of exponents and radicals; factoring polynomials; solving linear and quadratic equations and inequalities; rational expressions and complex fractions; introduction to functions and relations; applications.
Prerequisites: MATC 090 or equivalent, or appropriate Accuplacer score.

MATC 096 Topics: 1-4 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
MATHEMATICS (MATH)

MATH 101 Review in Mathematics 1 Credit
Review of mathematical concepts and computations. Content will vary and topics will be chosen to prepare students for a specific subsequent course.
Prerequisites: Permission of instructor.

MATH 105 Elements of Mathematics I 3 Credits
Mathematics for the prospective elementary teacher with an emphasis on understanding mathematical reasoning and processes. Topics include problem solving, set theory, number theory, numeration systems, the integers and rational numbers.
Prerequisites: Appropriate mathematics placement test score and interview, and permission of instructor.

MATH 107 Career Math 3 Credits
Covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics include measurement, algebra, geometry, trigonometry, graphs, and/or finance. These are presented on an introductory level and the emphasis is on applications.

MATH 108 Technical Mathematics 4 Credits
Covers material designed for career technical or general studies students who need to study particular mathematical topics. Topics may include measurement, algebra, geometry, trigonometry, graphs, and/or finance. These are presented on an introductory level and the emphasis is on applications.

MATH 110 College Mathematics-GTMA 13 Credits
Essential mathematical concepts for B.A. students. Topics include logic, set theory, solving equations, basic inequalities, combinatorics, probability, descriptive statistics, geometry, consumer mathematics and the appropriate use of calculators
Prerequisites: MATC 091 or equivalent or appropriate mathematics placement test score.

MATH 119 Precalculus Mathematics-GTMA 15 Credits
An in-depth treatment of the mathematics essential to Calculus. Topics include the Cartesian plane, functions; polynomial, rational, exponential, logarithmic, inverse, circular and trigonometric functions; solving inequalities and systems of equations. Additional topics may include matrices, determinants and vectors.
Prerequisites: MATH 113 or equivalent, or appropriate mathematics placement test score.

MATH 121 Calculus for Business 3 Credits
An introduction to calculus with an emphasis on applications to business and economics. Topics include linear and quadratic functions, limits, continuity, differentiation, integration, the logarithmic and exponential functions, and applications. Computer algebra systems will be used where applicable. Current college algebra skills and graphic calculator are required.
Prerequisites: MATH 113 or equivalent, or appropriate mathematics placement test score.

MATH 127 Mathematics of Finance 3 Credits
Simple interest, simple discount, compound interest, continuously compounded interest, annuities, perpetuities, capitalization, determining payment size, determining outstanding principal, and constructing amortization schedules, including the derivation of mathematical formulae and the methods for solving many financial problems.
Prerequisites: MATH 113 or permission of instructor.

MATH 130 Trigonometry 3 Credits
A college-level treatment of trigonometry. Topics include the Cartesian plane, functions, inverse functions, the circular function, trigonometric functions, graphs of trigonometric functions, trigonometric identities, solving trigonometric equations, inverse trigonometric functions, triangle solution techniques and vectors.
Prerequisites: MATH 113 or equivalent, or appropriate mathematics placement test score.

MATH 135 Engineering Calculus I 4 Credits
Introduction to differentiation and integration of functions of a single variable. Emphasis on computational aspects. Includes functions, limits, continuity, differentiation, related rates, optimization problems, graphing, integration and applications.
Prerequisites: MATH 119, or appropriate mathematics placement score.

MATH 136 Engineering Calculus II 4 Credits
Continuation of MATH 135 Engineering Calculus I. Includes techniques of integration, trigonometric and hyperbolic functions, inverse, logarithmic and exponential functions, sequences, series, conic sections, polar coordinates and parametric equations.
Prerequisites: MATH 135 or MATH 151.

MATH 141 Analytical Geometry 3 Credits
A college-level treatment of analytic geometry. Topics include Cartesian coordinate systems, distance, parallel and perpendicular lines and planes, the locus of a condition, generalizations of lines, planes and parabolas, polar coordinates and vectors in two and three dimensions.
Prerequisites: MATH 130 or permission of instructor.
MATH 146 Calculus for Biological Sciences 5 Credits
An introduction to calculus with an emphasis on applications to biology. Topics include functions, properties and graphs of polynomials, rational functions, the trigonometric, inverse, exponential and logarithmic functions, limits, continuity, differentiation, related rates, min-max problems, integration and applications of biology.
Prerequisites: MATH 113 or permission of instructor.

MATH 147 Introduction to Computer Algebra Systems 1 Credit
Introduction to computer algebra using an appropriate computer algebra system (CAS) such as Maple, Mathematica, Derive, etc. Topics will include the syntax and simple programming of the CAS used. Assignments and projects will emphasize applications in Calculus.
Prerequisites: MATH 119 or permission of instructor.

MATH 149 Honors Mathematics-GTMA 13 Credits
An in-depth exploration of mathematical concepts, with an emphasis on the process of mathematical discovery. Topics are left to the discretion of the instructor, and typically include an introduction to more advanced topics such as group theory or graph theory. This course fulfills the essential learning requirement for students in the Honors Program.
Prerequisites: Permission to enroll is required.
Corequisites: MATH 151.

MATH 150 Topics and Careers in Mathematics 1 Credit
Introduction to the nature of mathematical thinking. Advanced topics and applications of mathematics and statistics will be presented at an introductory level. Career options will be investigated.
Prerequisites: MATH 151 or MATH 135 or MATH 146 (any of these courses may be taken concurrently with MATH 150).

MATH 151 Calculus I-GT-MA 15 Credits
An introduction to differentiation and integration of functions of a single variable. Topics include functions, limits, continuity, differentiation, related rates, min-max problems, graphing, integration and applications.
Prerequisites: MATH 119, or appropriate mathematics placement test score.

Essential Learning Categories: Mathematics See the program requirements list to determine the minimum level math needed

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MATH 152 Calculus II 8 Credits
A continuation of MATH 151 Calculus I. Topics include techniques of integration, trigonometric and hyperbolic functions, inverse, logarithmic and exponential functions, sequences, series, conic sections, polar coordinates and parametric equations.
Prerequisites: MATH 151.

MATH 196 Topics 1-4 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MATH 205 Elements of Mathematics II-GTMA 13 Credits
Decimal numbers, probability, statistics, geometry, and the metric system. A continuation of MATH 105 designed for the prospective elementary teacher.
Prerequisites: MATH 105 or permission of instructor.

Essential Learning Categories: Mathematics See the program requirements list to determine the minimum level math needed

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

MATH 225 Computational Linear Algebra 2 Credits
A computational approach to matrices, determinates, systems of equations, vector spaces, linear transformations, eigenvectors and eigenvalues, as well as their applications. Computational methods will be used to explore and investigate the traditional subjects of linear algebra.
Prerequisites: MATH 151 or MATH 135 or MATH 146.

MATH 236 Differential Equations and Linear Algebra 4 Credits
Prerequisites: MATH 152 or MATH 136.

MATH 240 Introduction to Advanced Mathematics 4 Credits
An introduction to writing mathematical proofs. This course is designed to provide students with a transition from computationally-based lower level classes to proof-based upper level classes. The primary goal of the course is to train students to construct and analyze rigorous mathematical proofs. Topics include introductory logic, set theory, relations, functions, induction, equivalence relations, partitions and combinatorics.

Prerequisites: MATH 152.

MATH 253 Calculus III 8 Credits
Vectors in three-dimensional space, vector functions, partial derivatives, directional derivative and multiple integrals.
Prerequisites: MATH 136 or MATH 152.

MATH 260 Differential Equations 3 Credits
Techniques of solving differential equations of order one, linear differential equations, linear equations with constant coefficients, non-homogeneous equations, variation of parameter techniques, and Laplace transform methods.
Prerequisites: MATH 152 or MATH 136.

MATH 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MATH 301 Mathematics for Elementary Teachers 3 Credits
A selection of mathematics topics addressing content and standards for elementary education. Strong emphasis on written and oral communication.
Prerequisites: MATH 205 and formal acceptance into the Teacher Education Program, or permission of instructor.

MATH 325 Linear Algebra 3 Credits
Matrices, solving systems of equations, determinants, vectors, vector spaces, linear transformations and eigenvalues.
Prerequisites: MATH 225 and MATH 240.
MATH 340 Ethnomathematics 3 Credits
Study of mathematics within cultures, especially small-scale indigenous cultures. Through the lens of culture, students can compare/contrast mathematics systems, their logical structures, and their modes of expression.
Prerequisites: MATH 240 or MATH 301 or permission of instructor.

MATH 352 Advanced Calculus 3 Credits
A rigorous and thorough treatment of differential and integral Calculus of one real variable. Topics include construction of the real numbers, limits, continuity, derivatives, integration, and series.
Prerequisites: MATH 240.

MATH 360 Methods of Applied Mathematics 3 Credits
Selection of techniques in applied mathematics of particular use to scientists and engineers. Topics include vector analysis, partial differential equations and transform techniques. Applications are stressed.
Prerequisites: MATH 253, and MATH 236 or MATH 260.

MATH 361 Numerical Analysis 4 Credits
Elementary numerical analysis using the hand-held programmable calculator including Taylor's theorem, truncating errors, iteration processes, least squares methods, numerical solution of algebraic and transcendental equations, systems of equations, ordinary and partial differential equations, integral equations, interpolation, finite differences, eigenvalue problems, relaxation techniques, approximations, and error analysis.
Prerequisites: MATH 152 or MATH 136.

MATH 362 Fourier Analysis 3 Credits
Introduction to continuous and discrete Fourier analysis. Topics include signals as vectors, matrices, and functions; orthogonality and correlation; expansions and transforms; Fourier series and frequency analysis; filtering, thresholding and compression; analysis of accuracy, including aliasing and convergence; Fourier and inverse Fourier transforms; discrete and inverse discrete Fourier transforms.
Prerequisites: MATH 152 or MATH 136.

MATH 365 Mathematical Modeling 3 Credits
A bridge between calculus and the application of mathematics. Investigation of meaningful and practical problems chosen from experiences, encompassing the disciplines of mathematical sciences, operations research, engineering, management sciences and life sciences.
Prerequisites: STAT 200, MATH 152 or MATH 136, and one of the following: MATH 236, MATH 240, MATH 253, MATH 260, MATH 325, or permission of instructor.

MATH 366 Methods of Applied Mathematics II 3 Credits
Treatment of numerical methods used to solve problems in applied mathematics. Topics include iteration, interpolation, numerical integration and differentiation, numerical linear algebra, numerical solutions of matrix eigenvalue problems, and numerical solutions of ordinary and partial differential equations.
Prerequisites: MATH 360; and CSCI 110/CSCI 110L or CSCI 111 or CSCI 130 or CSCI 310.

MATH 369 Discrete Structures II 3 Credits
Elementary logic, induction, recursion, recurrence relations, sets, combinatorics, relations, functions, graphs, trees, and elementary abstract structures.
Prerequisites: MATH 152 or MATH 136, and CSCI 111.

MATH 370 Discrete Structures III 3 Credits
Applications of logic, Boolean algebra and computer logic, abstract structures, coding theory, finite-state machines, and computability.
Prerequisites: MATH 369 or both MATH 240 and CSCI 111.

MATH 380 History of Mathematics 3 Credits
History of mathematics from antiquity to the present with emphasis upon the development of mathematics concepts and the people involved.
Prerequisites: MATH 152.

MATH 386 Geometries 4 Credits
A study of Euclidean and non-Euclidean geometries. This course examines the differences in their axiom systems and their models, and how notions in Euclidean geometry are interpreted in non-Euclidean systems.
Prerequisites: MATH 240.

MATH 389 Explorations in Mathematics for Elementary Educators 1 Credit
Broadening of future elementary educators' exposure to, and understanding of, diverse fields of mathematics through directed readings, analysis, and discussion.
Prerequisites: MATH 301 and permission of instructor.

MATH 394 Mathematics Colloquium 1 Credit
A weekly series of talks on a wide range of contemporary mathematics will be given by local faculty and others. Students must provide written commentary on these talks.
Prerequisites: Permission to enroll is required.

MATH 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MATH 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MATH 397 Structured Research 1-3 Credits
Mathematical research under the direct guidance of a faculty member. Designed for junior and senior level students. May be repeated for up to 12 credit hours.
Prerequisites: Permission of instructor.
Course may be taken multiple times up to maximum of 12 credit hours.

MATH 415 Abstract Algebra for Secondary Education 3 Credits
In-depth study of the algebra underlying the secondary school mathematics. Particular focus on: elementary number theory, modular arithmetic, integral domains, theory of polynomials, fields, and groups.
Prerequisites: MATH 240 and one of the following: MATH 310, MATH 325, or MATH 352.

MATH 420 Introduction to Topology 3 Credits
Important as preparation for graduate work in many areas of mathematics and theoretical physics. Introduction to general topology, topics normally covered include: metric spaces, connectedness, compactness, the separation axioms and the Tychonoff theorem. Intended for mathematically mature students.
Prerequisites: MATH 325 or permission of instructor.

MATH 425 Computational Abstract Algebra 3 Credits
Introduction to abstract algebra, typically groups and rings, from a computational perspective. Computation will be used to help explore and verify the properties of some algebraic structures.
Prerequisites: MATH 253, MATH 225 or MATH 325.
MATH 430 Mathematical Logic3 Credits
Introduction to the classical areas of mathematical logic (model theory, proof theory, the theory of computation, complexity theory and set theory), the relationships these sub-disciplines have with each other and their relationships to the foundations of mathematics, computational science, computer science and the philosophy of mathematics.
Prerequisites: MATH 240 or MATH 369.

MATH 450 Complex Variables3 Credits
Algebra of complex numbers, analyticity, differentiation and integration of complex functions, Cauchy's integral formulae, and series.
Prerequisites: MATH 240.

MATH 452 Intro to Real Analysis I3 Credits
An in-depth and rigorous treatment of the theory of calculus, with an introduction to real analysis. Topics for MATH 452 and MATH 453 include number systems, cardinality, point set topology; open and closed sets, metric spaces, completeness, compactness and connected sets; sequences, series, limits, continuity, differentiation, integration, sequences and series of functions, and Euclidean spaces.
Prerequisites: MATH 240, 253, and a grade of C or better in one of the following: MATH 310, MATH 325, or MATH 352.

MATH 453 Intro to Real Analysis II3 Credits
A continuation of MATH 452. Topics include number systems, cardinality, point set topology; open and closed sets, metric spaces, completeness, compactness and connected sets; sequences, series, limits, continuity, differentiation, integration; sequences and series of functions, and Euclidean spaces.
Prerequisites: MATH 452.

MATH 460 Advanced Linear Algebra3 Credits
Characteristics and minimal polynomial, Cayley-Hamilton Theorem, invariant subspaces, bilinear forms, primary decomposition theorem, dual vector spaces.
Prerequisites: MATH 325.

MATH 466 Methods of Applied Mathematics III3 Credits
Exploration of advanced methods of applied mathematics with an emphasis on extending basic methods and concepts. Specific content may vary but will typically include contemporary techniques in applied mathematics, modeling and data analysis.
Prerequisites: MATH 366.

MATH 484 Senior Seminar I2 Credits
An introduction to conducting mathematical research with discussion of various research topics, including how to read and analyze articles in mathematics. Presentations and papers will be required.
Prerequisites: MATH 452 or MATH 490 or MATH 366 or STAT 350.

MATH 490 Abstract Algebra I3 Credits
An introduction to the theory of algebraic structures. Topics include groups, subgroups, cyclic groups, groups of permutations, homomorphisms, isomorphisms, the order of group elements, cosets, quotient structures, isomorphism theorems and an introduction to rings and fields.
Prerequisites: MATH 240, and a grade of C or better in one of the following: MATH 310, MATH 325, or MATH 352.

MATH 491 Abstract Algebra II3 Credits
A continuation of MATH 490 Abstract Algebra I. Topics include properties of rings, subrings, ideals, quotient structures; ring homomorphisms and isomorphisms, integral domains, polynomial rings, properties of fields, subfields, field extensions, finite fields and Galois Theory.
Prerequisites: MATH 490.

MATH 494 Senior Seminar II2 Credits
Capstone course, with discussion of specialized topics and analysis of mathematical results, requiring students to interpret and present research. Subject matter will vary. Presentations and/or written research papers will be required.
Prerequisites: Permission of instructor.

MATH 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MATH 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MATH 500 Introduction to Graduate Studies in Applied Mathematics3 Credits
Introduction to methods and concepts of applied mathematics, including differentiation and integration of single and multivariate functions, vector calculus methods, matrix-vector computations, vector space concepts, and mathematical proofs.
Prerequisites: Acceptance into the Graduate Certificate in Applied Mathematics program.

MATH 510 Applied Probability and Statistics3 Credits
Develop a comprehension of, and an ability to perform, statistical methods that are most common in educational research. Emphasizes on statistical concepts that will further prepare teachers to teach introductory-level college statistics and critically examine and comprehend the data analysis in educational literature. Graphing calculators and computer software may be used to analyze and display data.
Prerequisites: Acceptance into the Graduate Certificate in Applied Mathematics program.

MATH 520 Applied Numerical Methods3 Credits
Exploration of fundamental algorithms and analysis of numerical methods commonly used by scientists, engineers, and mathematicians to approximately solve mathematical problems that are analytically impossible or intractable.
Prerequisites: MATH 500.

MATH 530 Applied Mathematical Modeling3 Credits
Investigation of applications of mathematics in the natural and social sciences, involving continuous, discrete, and probabilistic models. Survey of historical applications of mathematics in fields including chemistry, engineering, finance, ecology, and management; and creation of new models to address current questions in these fields. Involves model creation and model selection, analytical and computational methods of solving a model, and presentation of original work in a seminar setting.
Prerequisites: MATH 500.

MATH 540 Applied Audio and Image Processing3 Credits
Investigation of the mathematics behind the processing of sound waves and digital images. Both theory and computer-based applications will be explored, using methods of calculus, matrix-vector algebra, and inner product spaces.
Prerequisites: MATH 500.

MATH 550 Mathematical Logic and Foundations in Mathematics3 Credits
Study of logical systems, formal languages, satisfaction, deduction, correctness, completeness, applications to algebraic structures and orderings, construction of ordinal and cardinal numbers within axiomatic set theory, models of computation, undecidability, computational complexity, intractability, and introduction to themes within the philosophy of mathematics.
Prerequisites: Acceptance into the Graduate Certificate in Applied Mathematics program.
MATH 560 Applied Number Theory 3 Credits
Applied treatment of number theory including prime numbers, congruences, quadratic residues and primitive roots.
Prerequisites: Acceptance into the Graduate Certificate in Applied Mathematics program.

MATH 570 Applied Cryptography 3 Credits
Exploration of cryptography. Topics include number theory, classical ciphers, integer factorization, primality testing, public-key ciphers, digital signatures schemes, commitment schemes, elliptic curve methods, and applications to e-commerce. Additional topics upon student interest.
Prerequisites: MATH 560.

MATH 596 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
MEDICAL LAB TECHNICIAN (MLTP)

MLTP 101 Phlebotomy3 Credits
Orientation to the clinical lab areas and workflow. Emphasis on venipuncture and dermal collections. Skills necessary for limiting pre-analytic errors with sample collections and processing. Knowledge of POC testing, patient collection instructions, send out testing and informatics. Review of regulatory, ethical and legal issues, healthcare delivery system, certification and licensure, organ systems, basic medical terminology, infection prevention, and professionalism.
Corequisites: MLTP 102.
Fees: Yes.

MLTP 102 Applied Phlebotomy2 Credits
Clinical laboratory experience at an affiliated site. Application of knowledge and skills to venipuncture and dermal collections, sample processing, POC testing, patient collection instructions, send-out testing, informatics, OSHA practices and phlebotomist professionalism are included.
Corequisites: MLTP 101.

MLTP 132 Clinical Hematology and Coagulation3 Credits
Introduction to the theory and practical application of hematology and hemostasis as it relates to the medical laboratory. Bone marrow, blood cell formation, hemoglobin structure and synthesis, cell function and morphology, and coagulation are explored. Correlation of test results with normal results, blood cell disorders and clotting abnormalities emphasized. Laboratory techniques, instrumentation, and quality assurance in the hematology/hemostasis lab.
Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, CHEM 121/ CHEM 121L or CHEM 131/CHEM 131L, MLTP 101, and MLTP 102.

MLTP 132L Clinical Hematology and Coagulation Lab1 Credit
Lab component required for MLTP 132.
Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, CHEM 121/BIOL 121L or CHEM 131/CHEM 131L, MLTP 101, and MLTP 102.

MLTP 138 Clinical Immunology2 Credits
Fundamentals and procedures of the immune defenses as it relates to medical laboratory testing; innate and adaptive immune responses, deficiencies, autoimmunity, hypersensitivity and tissue transplantation. Exploration of serologic techniques and instrumentation in the detection and diagnoses of viral illness, immune related diseases and its applications in immunohematology. Introduction to theories and principles of molecular testing methods.
Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, CHEM 121/ CHEM 121L or CHEM 131/CHEM 131L, MLTP 101, and MLTP 102.
Corequisites: MLTP 138L, MLTP 142/MLTP 142L, and MLTP 231/MLTP 231L.

MLTP 138L Clinical Immunology Lab1 Credit
Lab component required for MLTP 138.
Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, CHEM 121/ CHEM 121L or CHEM 131/CHEM 131L, MLTP 101, and MLTP 102.
Corequisites: MLTP 138L, MLTP 142/MLTP 142L, and MLTP 231/MLTP 231L.
Fees: Yes.

MLTP 141 Clinical Immunohematology2 Credits
Theoretical principles and procedures in immunohematology and application in the medical laboratory. Blood banking procedures and potential problems in blood bank testing relative to antibody identification, compatibility testing, transfusion reactions and maternal/neonatal screening for hemolytic disease of the newborn.
Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, CHEM 121/ CHEM 121L or CHEM 131/CHEM 131L, MLTP 101, MLTP 102, MLTP 138/ MLTP 138L, MLTP 142/MLTP 142L, and MLTP 231/MLTP 231L.

MLTP 141L Clinical Immunohematology Lab1 Credit
Lab component required for MLTP 141.
Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, CHEM 121/ CHEM 121L or CHEM 131/CHEM 131L, MLTP 101, MLTP 102, MLTP 138/ MLTP 138L, MLTP 142/MLTP 142L, and MLTP 231/MLTP 231L.

MLTP 142 Clinical Microscopy2 Credits
Introduction to microscopy in the medical laboratory. Emphasis on kidney function and urine formation: examination of the physical, chemical and microscopic components of urine. Body fluid analysis of feces, seminal, vaginal, amniotic, cerebrospinal, serous, and synovial fluids. Critical analysis and problem solving with regards to pre-analytic, analytic and post-analytic variables in sample testing.
Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, CHEM 121/ CHEM 121L or CHEM 131/CHEM 131L, MLTP 101, and MLTP 102.
Corequisites: MLTP 138/MLTP 138L, MLTP 142L, and MLTP 231/MLTP 231L.

MLTP 142L Clinical Microscopy Lab1 Credit
Lab component required for MLTP 142.
Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, CHEM 121/ CHEM 121L or CHEM 131/CHEM 131L, MLTP 101, and MLTP 102.
Corequisites: MLTP 138/MLTP 138L, MLTP 142L, and MLTP 231/MLTP 231L.

MLTP 180 Applied Immunohematology3 Credits
Clinical laboratory experience in the principles and procedures of immunohematology at an affiliated site. It is an online supported, off-campus clinical laboratory experience taught by clinical faculty. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices and medical laboratory technician professionalism are included.
Corequisites: MLTP 182, MLTP 250, MLTP 252, and MLTP 253.

MLTP 182 Applied Hematology and Body Fluids4 Credits
Clinical laboratory experience in the principles and procedures of hematology, hemostasis, urinalysis and body fluids at an affiliated site. It is an on-line supported, off-campus clinical laboratory experience taught by clinical faculty. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices and medical laboratory technician professionalism are included.
Corequisites: MLTP 180, MLTP 250, MLTP 252, and MLTP 253.
MLTP 195 Independent Study 1-3 Credits
Course may be taken multiple times up to a maximum of 6 credit hours.

MLTP 231 Clinical Microbiology I 3 Credits
Study of normal flora and pathogenic microorganisms. Methods for recovery, identification of pathogens, culture techniques, procedures, antibiotic testing, automation and interpretation of clinical data. Emphasis on clinical specimens, testing algorithms and data correlation including diagnostics, public health, safety and quality control.

Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, CHEM 121/ CHEM 121L or CHEM 131/CHEM 131L, MLTP 101, and MLTP 102.
Corequisites: MLTP 138/MLTP 138L, MLTP 142/MLTP 142L, and MLTP 231L.

MLTP 231L Clinical Microbiology I Lab 1 Credit
Lab component required for MLTP 231.

Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, CHEM 121/ CHEM 121L or CHEM 131/CHEM 131L, MLTP 101, and MLTP 102.
Corequisites: MLTP 138/MLTP 138L, MLTP 142/MLTP 142L, and MLTP 231.
Fees: Yes.

MLTP 232 Clinical Microbiology II 3 Credits
Introduction to basic identification and classification of medically significant mycobacteria and other bacteria with unusual growth requirements, fungi, parasites and viruses. Sample collection, processing, isolation methods, and immunologic diagnosis and treatment. Epidemiology and pathogenesis of associated diseases are explored.

Corequisites: MLTP 180, MLTP 182, MLTP 250, and MLTP 253.

MLTP 242 Clinical Chemistry 3 Credits
Application of human pathophysiology and how it relates to laboratory testing. Cardiovascular disease, kidney function, acid-base metabolism, liver, bone, carbohydrate disorders, endocrine, malignancy, and exogenous substances. Exploration of measurement methodologies, instrumentation, reagents and reactions, standards and control usage in quality assurance. Critical analysis and problem solving with regards to pre-analytic, analytic and post-analytic variables in sample testing.

Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, CHEM 121/ CHEM 121L or CHEM 131/CHEM 131L, MLTP 101, MLTP 102, MLTP 138/ MLTP 138L, MLTP 142/MLTP 142L, MLTP 231/MLTP 231L.

MLTP 242L Clinical Chemistry Lab 1 Credit
Lab component required for MLTP 242.

Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, CHEM 121/ CHEM 121L or CHEM 131/CHEM 131L, MLTP 101, MLTP 102, MLTP 138/ MLTP 138L, MLTP 142/MLTP 142L, and MLTP 231/MLTP 231L.
Fees: Yes.

MLTP 250 Applied Chemistry and Serology 2 Credits
Clinical laboratory experience in the principles and procedures of chemistry and serology at an affiliated site. It is an on-line supported, off-campus clinical laboratory experience taught by clinical faculty. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices and medical laboratory technician professionalism are included.

Corequisites: MLTP 180, MLTP 182, MLTP 250, and MLTP 253.

MLTP 252 Applied Microbiology 4 Credits
Clinical laboratory experience in the principles and procedures of clinical microbiology at an affiliated site. It is an on-line supported, off-campus clinical laboratory experience taught by clinical faculty. Emphasis is on the application of knowledge and technical skills to clinical testing, methodology, instrumentation, quality control, correlation of laboratory data with pathophysiology, OSHA practices and medical laboratory technician professionalism are included.

Corequisites: MLTP 180, MLTP 182, MLTP 250, and MLTP 253.

MLTP 253 Certification Exam Review 1 Credit
Review of key principles and content in preparation for national certification examination.

Corequisites: MLTP 180, MLTP 182, MLTP 250, and MLTP 253.

MLTP 275 Capstone Seminar 1 Credit
Preparation for clinical internships. Conflict resolution, communication skills, professional behavior in the workplace, resume writing and interview skills.

Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, CHEM 121/ CHEM 121L or CHEM 131/CHEM 131L, MLTP 101, MLTP 102, MLTP 138/ MLTP 138L, MLTP 142/MLTP 142L, and MLTP 231/MLTP 231L.
Corequisites: MLTP 132/MLTP 132L, MLTP 141/MLTP 141L, MLTP 232, and MLTP 242/MLTP 242L.
MEDICAL OFFICE ASSISTANT (MOAP)

MOAP 110 Medical Office Administration 4 Credits
Learn to perform the administrative duties specifically used in medical offices.

MOAP 111 Introduction to Medical Assisting 3 Credits
Description and career opportunities. Professionalism and effective communication. Overview of health care, types of organizations and health care team. Legal considerations in the medical office, patient rights and the Health Information Portability and Accountability Act (HIPAA), and principles of law and ethics in health care.

MOAP 130 Medical Office Administration Insurance Billing and Coding 3 Credits
Introduction to outpatient coding with topics including identifying medical procedures and services performed (CPT codes), correlating the diagnosis, symptom, complaint or condition (ICD-9 codes), and establishing the medical necessity required for third-party reimbursement.

MOAP 133 Basic Medical Sciences I 4 Credits
Organization and function of the human body. Introductory anatomy, physiology, and pathophysiology of integumentary, musculoskeletal, cardiovascular, blood, lymphatic and immune, and respiratory. Health problems, illnesses, diagnostic tests, drug therapy and treatment common in the ambulatory patient care setting.

MOAP 135 Basic Medical Sciences II 4 Credits
Organization and function of urinary, male and female reproductive systems, musculoskeletal, and eyes, ears, nose and throat. Implications in pediatrics, geriatrics and nutrition are reviewed. Health problems, illnesses, diagnostic tests, drug therapy and treatment common in the ambulatory patient care setting.

MOAP 136 Introduction to Clinical Skills 2 Credits
Principles and procedures. Collection of patient history and data, vital signs, height, weight, and appropriate documentation. Methods of assisting clinicians with physical examinations, procedures, and treatments in the medical office. Infection control and medical asepsis.
Prerequisites: MOAP 111.

MOAP 138 Medical Assisting Laboratory Skills 4 Credits
Laboratory skills and techniques for collection, handling, examination and testing of laboratory specimens often encountered in the ambulatory care setting. Emphasizes hands-on experience.
Prerequisites: MOAP 111 and MOAP 136.

MOAP 140 Medical Assisting Clinical Skills 4 Credits
Principles and procedures. Methods of assisting clinicians with specialty physical examinations, diagnostic testing, procedures, treatments, and minor surgical procedures in the medical office. Principles of medication administration with an emphasis on oral and parenteral routes of drug administration.
Prerequisites: MOAP 111 and MOAP 136.

MOAP 147 Medical Terminology 4 Credits
Basic medical terminology as applied to major systems of the body and related diseases. Includes special applications and related to medical practice with emphasis on spelling.

MOAP 150 Pharmacology for Medical Assistants 3 Credits
Overview of pharmacology. Drug action and uses, names, classifications, effects, interactions, regulation and safety. Vaccine and immunization schedules and administration. Information regarding the measurement of medications, dosage calculations, routes of administration, and commonly prescribed drugs in the medical office is provided.
Prerequisites: MOAP 111.

MOAP 183 Medical Assistant Internship 5 Credits
Supervised placement in contracted facility for guided experience in application of knowledge and skill acquired in the classroom. Business and clinical procedures. Positions are non-paid due to accreditation requirements. Permission of program coordinator required to begin internship.

MOAP 189 Review for Medical Assistant National Exam 1 Credit
Preparation and practice for a national registration examination.
Prerequisites: Permission of Program Director.

MOAP 196 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
MULTIMEDIA ANIMATION (MGDA)

**MGDA 105 Creative Development** 3 Credits  
Hands-on strategies for developing, stimulating, and maintaining creativity to accomplish professional and personal goals.

**MGDA 120 Digital Design Tools** 3 Credits  
Concentrates on the capabilities of digital cameras, raster photo-editing software, vector drawing software, and digital painting software for use in 3D animation. Explores how these image tools, combined with basic techniques, can be applied to create digital images, graphics, and videos.

**MGDA 149 Digital Drawing** 3 Credits  
Explore foundational skills necessary to create characters for use in computer-based 3D animation courses. Learn to draw human and non-human forms first using pencil and paper, then apply those skills with computer graphic design software. Character development, anatomy, dynamic movement and action, and scenery emphasized.

**MGDA 150 Previsualization** 3 Credits  
Introduces steps followed by professional media content producers and 3D animators/VR designers for producing preproduction material in a digital environment. Previsualization techniques include scriptwriting for 3D and VR experiences; plus traditional storyboarding, and virtual reality camera/actor layout blocking methods.

**MGDA 153 Beginning 3D Animation** 3 Credits  
Encompasses all major aspects of creating 3D characters using animation software. Use of developed characters to learn how to animate for personality.

**MGDA 156 Audio Design** 3 Credits  
Explores how audio recording principles enhance multimedia and 3D animated productions.

**MGDA 164 Digital Video Editing** 3 Credits  
Introduction to digital non-linear video editing as a 3D Animation tool. Edit, manipulate and compress/export video. Assembly techniques including media management, editing tools, titles, and motion control; transitions and filters, and special effects are explored.

**MGDA 196 Topics** 1-3 Credits  
Course may be taken multiple times up to maximum of 15 credit hours.

**MGDA 225 3D Character Design** 3 Credits  
Explores advanced aspects of creating 3D characters on the computer, with an emphasis on digital sculpture techniques. Also examine facial animation, lip synchronization, scene design and lighting setups.

**MGDA 229 Animation History** 3 Credits  
Overview of the advent and evolution of animation from its earliest origins through the 1990s. Examine important individuals and studios in the animation field. View, analyze and peer critique animation examples. Social, cultural, artistic movements, and influences on contemporary animation styles and animation techniques are analyzed.

**MGDA 250 3D Character Rigging** 3 Credits  
Explore advanced character rigging features for 3D models. Understand adding controls to work with joints, forward kinematic (FK) and inverse kinematic (IK) blending, facial control using phonemes, eye movement, muscle systems, and skinning.

**MGDA 265 Digital Compositing** 3 Credits  
Provides fundamental techniques for creating motion graphics, green screen composites, advanced motional tracking data, modifying 3D animation multipass renders, and integration with 3D software.

**MGDA 268 Freelancing for Creatives** 3 Credits  
Introduction to freelancing opportunities for people in creative fields. Provides an overview about getting started, networking, financing, law, insurance, intellectual property rights, government regulations, time management, record keeping, taxes, self-promotion, and work-life balance.

**MGDA 270 Advanced 3D Animation** 3 Credits  
Investigate advanced 3D animation concepts that include workflow, advanced scene design, lighting, cameras, keyframing, textures, and rendering.

**MGDA 285 3D Animation Capstone** 3 Credits  
Develop and produce a short-form 3D animated movie using a production workflow and producing techniques. Explore the production process from conceptualization through finalization.

**MGDA 296 Topics** 1-3 Credits  
Course may be taken multiple times up to maximum of 15 credit hours.
MUSIC/ACADEMIC (MUSA)

MUSA 101 Concert Attendance 0 Credits
Required attendance at concerts to gain an appreciation for music and music performance. Majors must meet attendance requirements at approved music concerts and Recital Hour for eight semesters as a graduation requirement. Course may be taken 9 times for credit.

MUSA 111 Music Technology 1 Credit
Introduction to computer applications in music. The course begins with a focus on basic computer operation and the installation of the various software programs that will be used in the course. The course will include an overview of the three basic music applications for computers: notation software, Computer Assisted Instruction (CAI) software, and sequencing software (including digital audio). 
Corequisites: MUSA 114.

MUSA 113 Fundamentals of Theory 3 Credits
Required theory course for music minor and music theatre students. Harmonic principles of music, including scales, intervals, triads, and chords. Concurrent enrollment in MUSA 130 or prior knowledge of the keyboard required.

MUSA 114 Theory 1 - Introduction 3 Credits
Harmonic principles of the "common-practice" period including scales, intervals, triads and 7th chords. Introduction to part writing and voice leading. 
Prerequisites: satisfactory score on theory placement examination; concurrent enrollment in MUSA 116; concurrent enrollment in MUSA 130 or prior knowledge of the keyboard.

MUSA 115 Theory II - Diatonic Concepts 3 Credits
Continuation of MUSA 114, extending to all types of diatonic 7th chords, and their usages. Includes advanced rules of tonal harmonization. 
Prerequisites: MUSA 114 or permission of instructor; concurrent enrollment in MUSA 117. Concurrent enrollment in MUSA 131 or prior knowledge of the keyboard is required.

MUSA 116 Ear Training and Sightsinging I 2 Credits
Skills developed in reading rhythms, sightsinging, and listening. Emphasis on beginning melodic, harmonic, and rhythmic dictation. To be taken concurrently with MUSA 114.

MUSA 117 Ear Training and Sightsinging II 2 Credits
Further development of skills in sightsinging, rhythmic recognition, advanced listening abilities, including dictation of melodic and harmonic intervals, chord progressions, and two, three, and four-part chorales. To be taken concurrently with MUSA 115. 
Prerequisites: MUSA 116.

MUSA 120 Class Piano for Non Majors 2 Credits
MUSA 121 Class Piano for Non Majors 2 Credits
Open to all students (no prerequisites or corequisites), but recommended specifically for students who have little or no training in piano and are not music (or music theatre) majors or minors. Introductory piano proficiency (rudimentary note reading, music vocabulary, technique, aural skills, theory, and creative application of musical skills).

MUSA 128 Workshop In Music 1-3 Credits
Consists of specialized workshops in various aspects of music made possible by visiting artists and/or lecturers.

MUSA 130 Class Piano I 2 Credits
Introduction of basic keyboard skills including scales, chords, transposition, harmonization, choir warmups, improvisation, and sightreading. Recommended for music majors, music minors and music theatre majors needing piano proficiency skills required by their program of study. Students move at their own pace completing specified sequenced skills.

MUSA 131 Class Piano II 2 Credits
Continuation of keyboard skills learned in MUSA 130 including experience with arpeggios, chord inversions, different accompaniment styles and ensemble experiences. Students move at their own pace completing specified sequence skills.
Prerequisites: MUSA 130 or permission of instructor.

MUSA 137 Class Voice 1 Credit
Fundamentals of singing, interpretation, phonetics, language (diction for singers), and solo repertoire for beginning voice students.

MUSA 214 Theory III - Chromatic Concepts 3 Credits
The full use of chromaticism through secondary dominants, altered chords, Neapolitan and augmented sixth chords, and modulation techniques. Continues into 20th Century including the use of advanced chromaticism, serialism, and atonality. Includes advanced development of ear training and sightsinging. Emphasis on harmonic and rhythmic dictation. Continuation of MUSA 115 and MUSA 117.
Prerequisites: MUSA 115 and MUSA 117.

MUSA 215 Theory IV - Twentieth Century Form and Analysis 3 Credits
Study of various compositional approaches and techniques of the 20th Century, correlated with the study of musical form. Includes advanced development of ear training and sight singing. Emphasis on harmonic and rhythmic dictation. Continuation of MUSA 214.
Prerequisites: MUSA 214.

MUSA 220 Music Appreciation - GATAH 13 Credits
Masterpieces of music, composers, and performers useful for the music student who has a weak background in the Masters.

Essential Learning Categories: Fine Arts

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

MUSA 228 Workshop In Music I-3 Credits
Consists of specialized workshops in various aspects of music made possible by visiting artists and/or lecturers.

MUSA 230 Class Piano III 2 Credits
Continuation of concepts covered in MUSA 130 and MUSA 131 including minor scales, chords, transposition, playing from lead sheets, improvisation, basic jazz keyboarding skills, sightreading. 
Prerequisites: MUSA 130 and MUSA 131, or permission of instructor.

MUSA 231 Class Piano IV 2 Credits
Culmination of concepts covered in MUSA 130, MUSA 131, and MUSA 230. Emphasis on jazz keyboarding skills, reading from open vocal score or instrumental score with transposing parts, creating and playing accompaniments for simple pieces.
Prerequisites: MUSA 230 or permission of instructor.

MUSA 232 String Pedagogy and Materials 2 Credits
Study of violin, viola, cello, and string bass in a class situation. Emphasis is on fundamentals of playing techniques at an elementary level.

MUSA 233 Woodwind Pedagogy and Materials 2 Credits
Study of flute, oboe, clarinet, bassoon, and saxophone in a class situation. Emphasis is on fundamentals of playing techniques at an elementary level.
MUSA 234 Brass Pedagogy and Materials 2 Credits
A concentrated course to develop a knowledge of the brass instruments and to acquire sufficient skill to demonstrate good tone, technique, and breath control.

MUSA 235 Percussion Pedagogy and Materials 2 Credits
The study of methods and materials for teaching beginning percussion in the public school. Includes practical instruction on the instruments utilized in the marching band, orchestra, and stage band.

MUSA 240 Introduction to Music Education 2 Credits
Prerequisites: Prerequisites: MUSA 115 and MUSA 117.
Guest lectures, class listening sessions, and materials and techniques for improvisation, including chord and scale construction, modality, harmonic patterns, linear concepts, with emphasis on other conductors and score study is included. Required of all music majors.

MUSA 250 Beginning Conducting 2 Credits
Basic concepts and techniques necessary to conduct music. Students are expected to master patterns, fermatas, dynamics, etc. Observation of other conductors and score study is included. Required of all music majors.

MUSA 258 Introduction to Improvisation 1 Credit
Exploreation of theory, philosophy, and application of basic improvisational techniques for musicians. Improvisation on the basic elements of music such as rhythm, melody, harmony, and timbre.
Terms Typically Offered: Fall.

MUSA 266 History of Popular Music - GTAHI3 Credits
Differences in style, musical elements, lyrical content, and outstanding artists/writers in the areas of popular, rock, Country Western, and jazz idioms. Evolutionary aspects and social significance are introduced as background references. Guest lectures, class listening sessions, film strips, and music video augment the lecture sessions. Open to all students.

Essential Learning Categories: Fine Arts
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

MUSA 267 Jazz History and Literature 3 Credits
Survey of prominent artists, innovators, and stylistic trends in jazz from its origins to the contemporary.

Essential Learning Categories: Fine Arts

MUSA 268 Beginning Jazz Improvisation 1 Credit
Materials and techniques for improvisation, including chord and scale construction, modality, harmonic patterns, linear concepts, with emphasis on technique, style and idiomatic usage.
Prerequisites: MUSA 115 or permission of instructor.
Corequisites: MUSA 214 or permission of instructor.

MUSA 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MUSA 302 Keyboard Literature I3 Credits
Survey of keyboard literature from Elizabethan music through Mendelssohn.
Prerequisites: MUSA 230 or permission of instructor, MUSL 230.

MUSA 303 Symphonic Literature 3 Credits
Survey of music from early instrumental to present-day compositions. Emphasis on composers' styles, orchestras, conductors; chamber orchestra music also included.
Prerequisites: MUSA 215.

MUSA 304 Keyboard Literature II 3 Credits
Survey of keyboard literature from Chopin to the present day.
Prerequisites: MUSA 231, MUSL 230, or permission of instructor.

MUSA 310 Accompanying Techniques 2 Credits
Development of accompanying proficiency, including listening skills, form, and analysis of the music to be performed; rehearsing techniques; accompanying repertoire for vocal; instrumental; and ensemble playing.
Prerequisites: MUSA 214, or permission of instructor.

MUSA 311 Advanced Music Technology 1 Credit
Application of advanced technological tools in music recording, editing, composition, and production, including audio components and connections; digital audio multi-track recording, synthesis, sequencing, sampling, and editing; and microphone techniques.
Prerequisites: MUSA 111.

MUSA 317 Applied Orchestration and Arranging 2 Credits
Choral and instrumental arranging; instrumentation, scoring, and analysis of harmonic styles of various composers. Students are required to compose and arrange original works.
Prerequisites: MUSA 215.

MUSA 318 Vocal Literature 3 Credits
Follows the changing patterns, styles, and fashions of the secular art-song from medieval Europe to Europe and America of the day.
Prerequisites: MUSA 137 or previous enrollment in private vocal studies.

MUSA 319 Choral Literature 3 Credits
Historical, analytical, and interpretive study of choral literature spanning the Renaissance through the 20th Century. Important course for those planning to direct choir.
Prerequisites: Previous or concurrent enrollment in a Colorado Mesa University choir or permission of the instructor.

MUSA 326 Music History and Literature I 3 Credits
Literature and styles of the master composers of music through the Ancient, Medieval, Renaissance, and Baroque periods. Course work is designed for the music major, utilizing a lecture and listening laboratory format and one scholarly research paper of the student's choice.
Prerequisites: MUSA 114.

MUSA 327 Music History and Literature II 3 Credits
Literature and styles of the master composers of music through the classic, romantic, and modern ages. Coursework is designed primarily for the music major, utilizing a lecture and listening laboratory format and one scholarly research paper of the student's choice.
Prerequisites: MUSA 114.

MUSA 328 Workshop In Music 1-3 Credits
Consists of specialized workshops in various aspects of music made possible by visiting artists and/or lecturers.

MUSA 337 Singer's Diction 1: English and German 1 Credit
Study of the International Phonetic Alphabet (IPA) and its use in the pronunciation of lyric diction for English and German.

MUSA 340 Teaching Elementary and General Music: Methods, Principles, and Materials 3 Credits
For Music Education Majors: The course is designed for standards-based curriculum for elementary and general music classes. Weekly laboratory experiences focus on course content dealing with teaching competencies in elementary and general music. Also addresses how to teach literacy in the music classroom. Includes 30 hours of field experience.
Prerequisites: MUSA 215, MUSA 218, MUSA 240, and MUSA 250.
MUSA 350A Advanced Conducting: Choral2 Credits
More difficult techniques such as advanced meters, advanced score study, interpretive conducting and ensemble rehearsal techniques. Required of all music education majors.
Prerequisites: MUSA 250.

MUSA 350B Advanced Conducting: Instrumental2 Credits
More difficult techniques such as advanced meters, advanced score study, interpretive conducting and ensemble rehearsal techniques. Required of all music education majors.
Prerequisites: MUSA 250.

MUSA 363 Music Industry and Marketing3 Credits
Exploration of business aspects of the music industry, with an emphasis on careers and music marketing.

MUSA 365 Entrepreneurship for Creatives3 Credits
Preparation for aspiring musical creatives to build a career through entrepreneurial activities including business model development, project management strategy development, budgeting, and promotion, leading to a startup endeavor in the creative sector.

MUSA 368 Advanced Jazz Improvisation2 Credits
Advanced Improvisation is the continuation of Beginning Improvisation. Advanced theoretical concepts will be addressed with expansion of repertoire and improvisational patterns.
Prerequisites: MUSA 268, MUSA 215, Class Piano IV/piano proficiency, or permission of instructor.

MUSA 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MUSA 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MUSA 410 Vocal Pedagogy3 Credits
The physiology of the human vocal mechanism, various teaching styles, vocal problems related to various age groups, and vocal repertoire pertinent to all age groups and levels of development.
Prerequisites: MUSA 137 or previous or concurrent enrollment in private vocal studies.

MUSA 411 Piano Pedagogy3 Credits
Introduction to the field of piano teaching and learning/teaching theories with application to piano teaching. Survey of methods and literature. Instructional techniques for group and individual lesson settings.
Prerequisites: MUSA 231, MUSL 230, or permission of instructor.

MUSA 426 The Music of World Cultures2 Credits
An exploration of music outside the Western Classical music tradition. Musical traditions include music of the Orient, Africa, India, and North and South American ethnic music. The course will also examine ethnic music from other world cultures such as Afro Cuban and Brazilian as well as blues and jazz music developed in the United States.
Prerequisites: MUSA 215, MUSA 231 or piano proficiency, or permission of instructor.

MUSA 428 Workshop In Music1-3 Credits
Consists of specialized workshops in various aspects of music made possible by visiting artists and/or lecturers.

MUSA 437 Singer’s Diction 2: Italian and French1 Credit
Study of the International Phonetic Alphabet (IPA) and its use in the pronunciation of lyric diction for Italian and French.
Prerequisites: MUSA 337.

MUSA 438 Singer’s Diction 3: Russian1 Credit
Study of the International Phonetic Alphabet (IPA) and its use in the pronunciation of lyric diction for Russian.
Prerequisites: MUSA 337.

MUSA 440 Teaching Vocal Music K-12: Methods, Principles, and Materials3 Credits
Standards-based instruction of elementary and general music classes for Music Education majors. Training in concepts, methodology, and materials necessary to teach standards-based vocal music in public/private schools. Includes 30 hours of field experience.
Prerequisites: MUSA 137, MUSL 137, or MUSP 150, MUSA 350A or MUSA 350B.

MUSA 441 Teaching Instrumental Music K-12: Methods, Principles and Materials3 Credits
Designed for standards-based music curriculum for teaching instrumental music in the public schools. Activity will be centered on developing teaching competencies, administration of the music program, and methods, materials, equipment and technology needed for the instrumental music program. Includes 30 hours field experience.
Prerequisites: MUSA 350A or MUSA 350B.

MUSA 442A Teaching Special Ensembles: Choral2 Credits
Practical knowledge and methodology in the teaching of (A) Show/ Jazz Choirs and (B) Marching/Jazz Bands. Students will learn the skills necessary to direct these ensembles. Includes 30 hours of field experience.
Prerequisites: MUSA 215, 240 and 250.
Corequisites: MUSA 350A or 350B if not completed.

MUSA 442B Teaching Special Ensembles: Instrumental2 Credits
Practical knowledge and methodology in the teaching of (A) Show/ Jazz Choirs and (B) Marching/Jazz Bands. Students will learn the skills necessary to direct these ensembles. Includes 30 hours of field experience.
Prerequisites: MUSA 215, MUSA 240 and MUSA 250.
Corequisites: MUSA 350A or MUSA 350B if not completed.

MUSA 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MUSA 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MUSA 499 Internship1-4 Credits
Work experience obtained on a job in the music industry.
Prerequisites: Senior status, MUSA 363, and permission of instructor.
Course may be taken multiple times up to maximum of 15 credit hours.

MUSA 596 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
MUSL 130 Piano1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 131 Guitar1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 132 Strings1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 133 Woodwinds1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 134 Brass1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 135 Percussion1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 136 Electronic Instruments1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 137 Voice1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 138 Composition1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 139 Jazz1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 230 Piano1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 231 Guitar1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 232 Strings1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 233 Woodwinds1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.
MUSL 334 Brass 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 331 Guitar 1-2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 332 Strings 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 333 Woodwinds 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 334 Brass 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 335 Percussion 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 336 Electronic Instruments 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 337 Voice 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 338 Composition 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 339 Jazz 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.

MUSL 340 Piano 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 2 times for credit.
MUSL 338 Composition 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required. Course may be taken 2 times for credit.

MUSL 339 Jazz 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required. Course may be taken 2 times for credit.

MUSL 340 Instrumental Pedagogy and Literature 1 Credit
Private one-on-one instruction of instrumental pedagogy and literature for woodwinds, brass, and strings music performance major students. The student will develop skills and knowledge of pedagogy of his/her primary instrument for future studio teaching. The student will also explore a survey of repertory for the instrument, including solo, chamber, band, and/or orchestra literature. Terms Typically Offered: Fall, Spring. Course may be taken 2 times for credit.

MUSL 350 Conducting 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required. Course may be taken 2 times for credit.

MUSL 430 Piano 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required. Course may be taken 4 times for credit.

MUSL 431 Guitar 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required. Course may be taken 4 times for credit.

MUSL 432 Strings 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required. Course may be taken 4 times for credit.

MUSL 433 Woodwinds 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required. Course may be taken 4 times for credit.

MUSL 434 Brass 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required. Course may be taken 4 times for credit.

MUSL 435 Percussion 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required. Course may be taken 4 times for credit.

MUSL 436 Electronic Instruments 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required. Course may be taken 4 times for credit.

MUSL 437 Voice 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required. Course may be taken 4 times for credit.

MUSL 438 Composition 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required. Course may be taken 4 times for credit.

MUSL 439 Jazz 1 or 2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required. Course may be taken 4 times for credit.
MUSL 450 Conducting1-2 Credits
Development of individual music performance skills through weekly lessons. Available to all students and may be used as an elective choice to students concurrently enrolled in a MUSP course. Lessons may be taken twice at each level. Music majors are required to attend and perform at weekly recitals as a component of applied music lessons. An instructional fee is required.
Course may be taken 4 times for credit.
MUSC/PERFORMING (MUSP)

MUSP 140 Wind Symphony 1 Credit
A symphony comprised of serious wind and percussion students, including music majors and non-music majors, who perform a wide variety of standard and current literature. Audition with conductor required. Course may be taken 2 times for credit.

MUSP 141 Symphony Orchestra 1 Credit
Ensemble designed to rehearse and perform symphonic literature as well as choral, opera and concerto repertoire. Audition required. Course may be taken 2 times for credit.

MUSP 144 Jazz Ensemble 1 Credit
A group utilizing stage band instrumentation and performing many local and required concert engagements. By audition; preference given to members of Symphonic Band. Course may be taken 2 times for credit.

MUSP 145 Chamber Ensembles 1 Credit
Groups organized upon the talents and interests of the members. Specified ensembles may be offered from time to time in the format of String Quartets, Woodwind, and Brass Choirs, etc. A minimum of one public performance per each term of enrollment is required. Prerequisites: MUSP 145, MUSP 245, MUSP 345, MUSP 445 require audition by the band director. Course may be taken 2 times for credit.

MUSP 146 Community Performance Organizations 1 Credit
Opportunity for students and other musicians in the community to participate in various community musical groups, such as the Grand Junction Symphony. Audition with conductor is required. Course may be taken 2 times for credit.

MUSP 147 Marching Band 1 Credit
Rehearsal and presentation of musical and physical performance proficiencies. Specific skills associated with self-discipline, leadership, and individual and ensemble performance are developed. Advanced practice in physical alignment, balance, endurance, flexibility, and strength in technical competency. Available to all university students. Offered every fall semester. Monday/Wednesday/Friday 6:00-8:00 p.m., football practice field. Audition or consent of instructor required. Previous band experience highly recommended. Only MUSP 147 counts as a KINA activity credit. Course may be taken 2 times for credit.

MUSP 148 Chamber Orchestra 1 Credit
Ensemble designed to rehearse and perform chamber orchestra works. This ensemble will involve strings as well as woodwind and brass instruments. Audition required. Course may be taken 2 times for credit.

MUSP 150 Concert Choir 1 Credit
The major large choir, open to all students and staff who enjoy singing, with final membership approved by the director. Concert Choir performs great choral literature of all types representing Colorado Mesa University in formal concerts both on and off campus including concert tours, performing large-scale masterworks with orchestra. Course may be taken 2 times for credit.

MUSP 155 Chamber Choir 1 Credit
An advanced smaller choral ensemble which performs vocal literature from Renaissance to Contemporary art music including jazz. Chamber Choir performs on and off campus, on concert tours, and at the annual Madrigal Dinners. Staff and students are eligible by audition; membership in Concert Choir generally a prerequisite. Course may be taken 2 times for credit.

MUSP 157 Male Choir 1 Credit
Campus-wide chorus open to all interested students and faculty. Performs all types of music written for combined men's voices. Concertizes in conjunction with other university choral ensembles and in separate performances on-off campus. Prerequisites: Taken in sequence. Members must perform a brief audition with instructor. Course may be taken 2 times for credit.

MUSP 158 Women's Chorus 1 Credit
Performances include the complete range of music written for combined women's voices, both on and off-campus, and in conjunction with the other university choral ensembles in Music Department concerts. Prerequisites: Permission of director. Course may be taken 2 times for credit.

MUSP 159 Vocal Jazz Ensemble 1 Credit
Exploration of wide range of vocal literature. Performances given, both on and off campus. Prerequisites: Permission of instructor. Course may be taken 2 times for credit.

MUSP 162 Combo 1 Credit
Interested students team up with a rhythm section in learning tunes and "head" charts, improving skills and making practical application of improvisation. Course may be taken 2 times for credit.

MUSP 240 Wind Symphony 1 Credit
A symphony comprised of serious wind and percussion students, including music majors and non-music majors, who perform a wide variety of standard and current literature. Audition with conductor required. Course may be taken 2 times for credit.

MUSP 241 Symphony Orchestra 1 Credit
Ensemble designed to rehearse and perform symphonic literature as well as choral, opera and concerto repertoire. Audition required. Course may be taken 2 times for credit.

MUSP 244 Jazz Ensemble 1 Credit
A group utilizing stage band instrumentation and performing many local and required concert engagements. By audition; preference given to members of Symphonic Band. Course may be taken 2 times for credit.

MUSP 245 Chamber Ensembles 1 Credit
Groups organized upon the talents and interests of the members. Specified ensembles may be offered from time to time in the format of String Quartets, Woodwind, and Brass Choirs, etc. A minimum of one public performance per each term of enrollment is required. Prerequisites: MUSP 145, MUSP 245, MUSP 345, MUSP 445 require audition by the band director. Course may be taken 2 times for credit.
MUSP 246 Community Performance Organizations1 Credit
Opportunity for students and other musicians in the community to participate in various community musical groups, such as the Grand Junction Symphony. Audition with conductor is required. Course may be taken 2 times for credit.

MUSP 247 Marching Band1 Credit
Rehearsal and presentation of musical and physical performance proficiencies. Specific skills associated with self-discipline, leadership, and individual and ensemble performance are developed. Advanced practice in physical alignment, balance, endurance, flexibility, and strength in technical competency. Available to all university students. Offered every fall semester. Monday/Wednesday/Friday 6:00-8:00 p.m., football practice field. Audition or consent of instructor required. Previous band experience highly recommended. Only MUSP 147 counts as a KINA activity credit.
Course may be taken 2 times for credit.

MUSP 248 Chamber Orchestra1 Credit
Ensemble designed to rehearse and perform chamber orchestra works. This ensemble will involve strings as well as woodwind and brass instruments. Audition required. Course may be taken 2 times for credit.

MUSP 250 Concert Choir1 Credit
The major large choir, open to all students and staff who enjoy singing, with final membership approved by the director. Concert Choir performs great choral literature of all types representing Colorado Mesa University in formal concerts both on and off campus including concert tours, performing large-scale masterworks with orchestra. Course may be taken 2 times for credit.

MUSP 256 Chamber Choir1 Credit
An advanced smaller choral ensemble which performs vocal literature from Renaissance to Contemporary art music including jazz. Chamber Choir performs on and off campus, on concert tours, and at the annual Madrigal Dinners. Staff and students are eligible by audition; membership in Concert Choir generally a prerequisite. Course may be taken 2 times for credit.

MUSP 257 Male Choir1 Credit
Campus-wide chorus open to all interested students and faculty. Performs all types of music written for combined men’s voices. Concertizes in conjunction with other university choral ensembles and in separate performances on-off campus. Prerequisites: Taken in sequence. Members must perform a brief audition with instructor.
Course may be taken 2 times for credit.

MUSP 258 Women's Chorus1 Credit
Performances include the complete range of music written for combined women’s voices, both on and off-campus, and in conjunction with the other university choral ensembles in Music Department concerts. Prerequisites: Permission of director.
Course may be taken 2 times for credit.

MUSP 259 Vocal Jazz Ensemble1 Credit
Exploration of wide range of vocal literature. Performances given, both on and off campus. Prerequisites: Permission of instructor.
Course may be taken 2 times for credit.

MUSP 262 Combo1 Credit
Interested students team up with a rhythm section in learning tunes and "head" charts, improving skills and making practical application of improvisation. Course may be taken 2 times for credit.

MUSP 270 Marching Band1 Credit
Preparation and successful completion of junior-level recital/presentation in the student's concentration. Recital/presentation must be approved by the music faculty and given during the semester in which the student is registered for this course. Required for Music Performance majors. Must include scholarly program notes covering historical aspects, analytical issues, and/or performance considerations of the recital repertory. Corequisites: 1 credit of MUSL 300-level.

MUSP 340 Wind Symphony1 Credit
A symphony comprised of serious wind and percussion students, including music majors and non-music majors, who perform a wide variety of standard and current literature. Audition with conductor required. Course may be taken 2 times for credit.

MUSP 341 Symphony Orchestra1 Credit
Ensemble designed to rehearse and perform symphonic literature as well as choral, opera and concerto repertoire. Audition required. Course may be taken 2 times for credit.

MUSP 344 Jazz Ensemble1 Credit
A group utilizing stage band instrumentation and performing many local and required concert engagements. By audition; preference given to members of Symphonic Band. Course may be taken 2 times for credit.

MUSP 345 Chamber Ensembles1 Credit
Groups organized upon the talents and interests of the members. Specified ensembles may be offered from time to time in the format of String Quartets, Woodwind, and Brass Choirs, etc. A minimum of one public performance per each term of enrollment is required. Prerequisites: MUSP 145, MUSP 245, MUSP 345, MUSP 445 require audition by the band director. Course may be taken 2 times for credit.

MUSP 346 Community Performance Organizations1 Credit
Opportunity for students and other musicians in the community to participate in various community musical groups, such as the Grand Junction Symphony. Audition with conductor is required. Course may be taken 2 times for credit.

MUSP 347 Marching Band1 Credit
Rehearsal and presentation of musical and physical performance proficiencies. Specific skills associated with self-discipline, leadership, and individual and ensemble performance are developed. Advanced practice in physical alignment, balance, endurance, flexibility, and strength in technical competency. Available to all university students. Offered every fall semester. Monday/Wednesday/Friday 6:00-8:00 p.m., football practice field. Audition or consent of instructor required. Previous band experience highly recommended. Only MUSP 147 counts as a KINA activity credit.
Course may be taken 2 times for credit.

MUSP 348 Chamber Orchestra1 Credit
Ensemble designed to rehearse and perform chamber orchestra works. This ensemble will involve strings as well as woodwind and brass instruments. Audition required. Course may be taken 2 times for credit.
MUSP 350 Concert Choir 1 Credit
The major large choir, open to all students and staff who enjoy singing, with final membership approved by the director. Concert Choir performs great choral literature of all types representing Colorado Mesa University in formal concerts both on and off campus including concert tours, performing large-scale masterworks with orchestra. Course may be taken 2 times for credit.

MUSP 356 Chamber Choir 1 Credit
An advanced smaller choral ensemble which performs vocal literature from Renaissance to Contemporary art music including jazz. Chamber Choir performs on and off campus, on concert tours, and at the annual Madrigal Dinners. Staff and students are eligible by audition; membership in Concert Choir generally a prerequisite. Course may be taken 2 times for credit.

MUSP 357 Male Choir 1 Credit
Campus-wide chorus open to all interested students and faculty. Performs all types of music written for combined men's voices. Concertizes in conjunction with other university choral ensembles and in separate performances on off-campus. Prerequisites: Taken in sequence. Members must perform a brief audition with instructor. Course may be taken 2 times for credit.

MUSP 358 Women's Chorus 1 Credit
Performances include the complete range of music written for combined women's voices, both on and off campus, and in conjunction with the other university choral ensembles in Music Department concerts. Prerequisites: Permission of director. Course may be taken 2 times for credit.

MUSP 359 Vocal Jazz Ensemble 1 Credit
Exploration of wide range of vocal literature. Performances given, both on and off campus. Prerequisites: Permission of instructor. Course may be taken 2 times for credit.

MUSP 362 Combo 1 Credit
Interested students team up with a rhythm section in learning tunes and "head" charts, improving skills and making practical application of improvisation. Course may be taken 2 times for credit.

MUSP 365 Opera Workshop 1 Credit
Development of vocal performance operatic skills for majors and minors within a musical and theatrical workshop. Operatic repertoire selected for class study. Stage movement, character study, audition techniques, resume construction and mock auditions incorporated. Prerequisites: Completion of Sophomore Review. Corequisites: MUSL 337. Course may be taken 2 times for credit.

MUSP 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

MUSP 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

MUSP 420 Senior Recital/Presentation 1 Credit
Preparation and successful completion of senior-level recital/presentation in the student's concentration. Recital/presentation must be approved by the music faculty and given during the semester in which the student is registered for this course. A music recital is required for Performance and Music Education majors and must include scholarly program notes (required for the official printed senior recital program) covering historical aspects, analytical issues, and/or performance considerations of the recital repertoire. Students in the Liberal Arts or Elective Studies in Business programs may likewise present recital or, alternatively, may elect to give a faculty-approved "capstone presentation" (e.g., lecture/recital; lecture/demonstration; or other presentation of creative work such as video, original compositions, arrangements, etc.). Performance majors take this course for 2 credits; all other music majors take this course for 1 credit.

MUSP 440 Wind Symphony 1 Credit
A symphony comprised of serious wind and percussion students, including music majors and non-music majors, who perform a wide variety of standard and current literature. Audition with conductor required. Course may be taken 4 times for credit.

MUSP 441 Symphony Orchestra 1 Credit
Ensemble designed to rehearse and perform symphonic literature as well as choral, opera and concerto repertoire. Audition required. Course may be taken 4 times for credit.

MUSP 444 Jazz Ensemble 1 Credit
A group utilizing stage band instrumentation and performing many local and required concert engagements. By audition; preference given to members of Symphonic Band. Course may be taken 4 times for credit.

MUSP 445 Chamber Ensembles 1 Credit
Groups organized upon the talents and interests of the members. Specified ensembles may be offered from time to time in the format of String Quartets, Woodwind, and Brass Choirs, etc. A minimum of one public performance per each term of enrollment is required. Prerequisites: MUSP 145, MUSP 245, MUSP 345, MUSP 445 require audition by the band director. Course may be taken 4 times for credit.

MUSP 446 Community Performance Organizations 1 Credit
Opportunity for students and other musicians in the community to participate in various community musical groups, such as the Grand Junction Symphony. Audition with conductor is required. Course may be taken 4 times for credit.

MUSP 447 Marching Band 1 Credit
Rehearsal and presentation of musical and physical performanceproficiencies. Specific skills associated with self-discipline, leadership, and individual and ensemble performance are developed. Advanced practice in physical alignment, balance, endurance, flexibility, and strength in technical competency. Available to all university students. Offered every fall semester. Monday/Wednesday/Friday 6:00-8:00 p.m., football practice field. Audition or consent of instructor required. Previous band experience highly recommended. Only MUSP 147 counts as a KINA activity credit. Course may be taken 4 times for credit.

MUSP 448 Chamber Orchestra 1 Credit
Ensemble designed to rehearse and perform chamber orchestra works. This ensemble will involve strings as well as woodwind and brass instruments. Audition required. Course may be taken 4 times for credit.
MUSP 450 Concert Choir
The major large choir, open to all students and staff who enjoy singing, with final membership approved by the director. Concert Choir performs great choral literature of all types representing Colorado Mesa University in formal concerts both on and off campus including concert tours, performing large-scale masterworks with orchestra.
Course may be taken 4 times for credit.

MUSP 456 Chamber Choir
An advanced smaller choral ensemble which performs vocal literature from Renaissance to Contemporary art music including jazz. Chamber Choir performs on and off campus, on concert tours, and at the annual Madrigal Dinners. Staff and students are eligible by audition; membership in Concert Choir generally a prerequisite.
Course may be taken 4 times for credit.

MUSP 457 Male Choir
Campus-wide chorus open to all interested students and faculty.
Performs all types of music written for combined men's voices.
Concertizes in conjunction with other university choral ensembles and in separate performances on-off campus.
Prerequisites: Taken in sequence. Members must perform a brief audition with instructor.
Course may be taken 4 times for credit.

MUSP 458 Women's Chorus
Performances include the complete range of music written for combined women's voices, both on and off-campus, and in conjunction with the other university choral ensembles in Music Department concerts.
Prerequisites: Permission of director.
Course may be taken 4 times for credit.

MUSP 459 Vocal Jazz Ensemble
Exploration of wide range of vocal literature. Performances given, both on and off campus.
Prerequisites: Permission of instructor.
Course may be taken 4 times for credit.

MUSP 462 Combo
Interested students team up with a rhythm section in learning tunes and "head" charts, improving skills and making practical application of improvisation.
Course may be taken 4 times for credit.

MUSP 465 Opera Scenes
Continuation of artistic and technical skills introduced in MUSP 365. Focus on operatic production of staged, public performance of either selected opera scenes or a one or two-act opera.
Prerequisites: Completion of Sophomore Review or instructor approval.
Corequisites: MUSL 437 or permission of instructor.
Course may be taken 4 times for credit.

MUSP 495 Independent Study
Course may be taken multiple times up to maximum of 6 credit hours.

MUSP 496 Topics
Course may be taken multiple times up to maximum of 15 credit hours.
NURSE AIDE TRAINING (NURA)

NURA 101 Nurse Aide Healthcare Skills 4 Credits
Fundamental skills of the nurse aide. Basic nursing skills, communication skills, restorative services, personal care skills, safety and emergency care covered. Includes knowledge and/or principles of asepsis, OSHA and HIPAA regulations. Ethical behaviors, cultural sensitivity, principles of mental health, patient/resident rights addressed.

Fees: Yes.

NURA 170 Nurse Aide Clinical Experience 1 Credit
Applies knowledge and skill gained in NURA 101 to patient care. Independent functioning within the nurse aide scope of practice in applying knowledge and skills gained in Nurse Aide Healthcare Skills. Enhanced communication, cultural competency, end of life care, critical thinking and organizational skills emphasized.

Prerequisites: NURA 101.
NURSING (NURS)

NURS 101 Pharmacology Calculations 1 Credit
Course introduces the concepts and techniques of dosage calculations and medication administration by a variety or routes. Application of basic math concepts to complex conversion of dosages between and among various systems of weights and volumes, and application of critical thinking skills to the calculation and administration of medications by oral and parenteral (including intravenous) routes of administration.
Prerequisites: Admission into the Practical Nursing certificate program.
Corequisites: NURS 106, NURS 106L, NURS 107, NURS 107L and NURS 112.

NURS 105L Nursing IV Certification 1 Credit
Introduction to theoretical and clinical skills essential for IV certification.
Prerequisites: BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, ENGL 111, ENGL 112, PSYC 233.
Corequisites: NURS 106/NURS 106L.

NURS 106 Adult Concepts I 3 Credits
Application of nursing concepts, skills, critical thinking, and assessment in caring for a variety of clients in various health care settings.
Prerequisites: Admission into the Practical Nursing certificate program.
Corequisites: NURS 101, NURS 106L, NURS 107, NURS 107L, and NURS 112.

NURS 106L Adult Concepts I Laboratory 2 Credits
Lab component required for NURS 106.
Prerequisites: Admission into the Practical Nursing certificate program.
Corequisites: NURS 101, NURS 106, NURS 107, NURS 107L, and NURS 112.
Fees: Yes.

NURS 107 Foundations of Nursing 3 Credits
Exploration of basic nursing concepts and skills to develop critical thinking while utilizing the nursing process.
Prerequisites: Admission into the Practical Nursing certificate program.

NURS 107L Foundations of Nursing Laboratory 3 Credits
Application of basic nursing and IV certification skills through training, practice, and checkoffs of essential skills needed for safe practice.
Prerequisites: Admission into the Practical Nursing certificate program.
Corequisites: NURS 101, NURS 106, NURS 106L, NURS 107, and NURS 112.
Fees: Yes.

NURS 109 Introduction to Mental Health 2 Credits
Introduction to complex concepts and behaviors of nursing roles within the cohort of the nursing process, holistic care, and mental health care. Emphasizes theoretical and practical aspects of the mental health nursing skills required to meet the needs of clients in a variety of settings.
Prerequisites: NURS 101, NURS 106, NURS 106L, NURS 107, NURS 107L, and NURS 112.
Corequisites: NURS 109L, NURS 117, NURS 117L, NURS 156, NURS 172, and NURS 172L.
Terms Typically Offered: Spring.

NURS 109L Introduction to Mental Health Laboratory 1 Credit
Lab component required for NURS 109.
Prerequisites: NURS 101, NURS 106, NURS 106L, NURS 107, NURS 107L, and NURS 112.
Corequisites: NURS 109, NURS 117, NURS 117L, NURS 156, NURS 172, and NURS 172L.
Terms Typically Offered: Spring.

NURS 112 Basic Concepts of Pharmacology 2 Credits
Introduction to basic concepts of pharmacology related to the actions, therapeutic and adverse effects, interactions of drugs, drug classifications, and the basic pharmacology of commonly used medications. Emphasis is placed on nursing considerations and client education.
Prerequisites: Admission into the Practical Nursing certificate program.
Corequisites: NURS 101, NURS 106, NURS 106L, NURS 107, and NURS 107L.
Terms Typically Offered: Fall.

NURS 117 Obstetrics and Pediatrics 4 Credits
Exploration of fundamental content in the nursing care of the childbearing family, which focuses on pregnancy, physiologic and psychological changes experienced, and care of the normal newborn. Includes the individual needs of the child from infancy through adolescence focusing on developmental stages, as well as childhood diseases and illness within each stage.
Prerequisites: NURS 101, NURS 106, NURS 106L, NURS 107, NURS 107L, and NURS 112.
Corequisites: NURS 109, NURS 109L, NURS 117L, NURS 156, NURS 172, and NURS 172L.

NURS 117L Obstetrics and Pediatrics Laboratory 2 Credits
Application of concepts related to pregnancy, newborns, and children from infancy to adolescence utilizing critical thinking, nursing process, and assessment in caring for this population within the various health care settings.
Prerequisites: NURS 101, NURS 106, NURS 106L, NURS 107, NURS 107L, and NURS 112.
Corequisites: NURS 109, NURS 109L, NURS 117, NURS 156, NURS 172, and NURS 172L.

NURS 156 Socialization into Practical Nursing 1 Credit
Introductory concepts for first time management. Examines legal and ethical responsibilities of the practical nurse. Emphasis is given to the Colorado Nurse Practice Act. Job seeking skills are discussed.
Prerequisites: NURS 101, NURS 106, NURS 106L, NURS 107, NURS 107L, and NURS 112.
Corequisites: NURS 109, NURS 109L, NURS 117, NURS 156, NURS 172, and NURS 172L.

NURS 172 Adult Concepts II 3 Credits
Application of clinical practicum to apply nursing theory in medical surgical nursing using the nursing process to assist clients with more complex health care needs.
Prerequisites: NURS 101, NURS 106, NURS 106L, NURS 107, NURS 107L, and NURS 112.
Corequisites: NURS 109, NURS 109L, NURS 117, NURS 117L, NURS 156, and NURS 172L.
NURS 172L Adult Concepts II Lab 3 Credits
Lab component required for NURS 172.
Prerequisites: NURS 101, NURS 106, NURS 106L, NURS 107, NURS 107L, and NURS 112.
Corequisites: NURS 109, NURS 109L, NURS 117, NURS 117L, NURS 156, and NURS 172.
Fees: Yes.

NURS 200 LPN to RN Role Transition 1 Credit
Prepares the advanced placement student to enter the Nursing Program through orientation to the program, review of the nursing process and exploration of the role change from practical to professional nursing. Introduction to selected concepts related to the role of the Associate Degree nurse as a provider of care, teacher, manager, client advocate, and member of the profession. Emphasis placed on critical thinking in providing and managing comprehensive care in a variety of health care settings with clients across the lifespan. Course is designed to assist the Licensed Practical Nurse with the transition into the practice of professional nursing.
Prerequisites: All essential learning and education and program prerequisites.

NURS 206 Advanced Concepts of Medical-Surgical Nursing 13 Credits
Role of the registered professional nurse as care provider, teacher, manager, professional, and advocate in meeting the nursing care needs of adults across the life span experiencing illness to wellness. The clinical lab provides opportunity for the student to utilize the nursing process and integrate previous learning to assist the patient and family in achieving optimal functioning in the various health care settings.
Corequisites: NURS 206L and NURS 288.

NURS 206L Advanced Concepts of Medical-Surgical Nursing Laboratory 2 Credits
Lab component required for NURS 206.
Corequisites: NURS 206 and NURS 288.
Fees: Yes.

NURS 210L Nursing Care of Complex Obstetrical and Pediatric Clients Laboratory 1 Credit
Prepares the professional nurse to comprehend and apply advanced concepts in the care of the high-risk child bearing family and for children with complex health problems from birth through adolescence. Emphasizes special needs and complications during the perinatal experience and altered functioning, special needs and disease process manifested in children. The nursing process is used as a framework to attain optimal levels of maternal-newborn and pediatric health and wellness. Legal and ethical accountability and critical thinking skills are integrated throughout the course. Theoretical content is applied in acute care and community clinical settings.
Prerequisites: NURS 200, NURS 206/NURS 206L, NURS 211/NURS 211L, NURS 286, and NURS 288.
Corequisites: NURS 210, NURS 216/NURS 216L, and NURS 289.
Fees: Yes.

NURS 211L Nursing Care of the Psychiatric Client Laboratory 1 Credit
Lab component required for NURS 211.
Prerequisites: NURS 200, NURS 206, NURS 206L, NURS 286, and NURS 288.
Corequisites: NURS 211 and NURS 217.
Fees: Yes.

NURS 216 Advanced Concepts of Medical Surgical Nursing II 12 Credits
[AAS Program only] Continues to focus on the role of the registered professional nurse as care provider, teacher, manager, professional, and advocate in meeting the complex medical and surgical health care needs of adult clients. Utilizing the nursing process, the student is expected to integrate previous learning to assist the patient and family in achieving optimal functioning in various complex health care situations and settings.
Prerequisites: All essential learning and prerequisites, NURS 206, NURS 206L, NURS 288, and NURS 200.
Corequisites: NURS 216L.

NURS 216L Advanced Concepts of Medical Surgical Nursing II Laboratory 3 Credits
Continues to focus on the role of the registered professional nurse as care provider, teacher, manager, professional, and advocate in meeting the complex medical and surgical health care needs of adult clients. Utilizing the nursing process, the student is expected to integrate previous learning to assist the patient and family in achieving optimal functioning in various complex health care situations and settings. In addition to inpatient acute care patient units the student will rotate through the critical care areas of the health care facility.
Prerequisites: NURS 200, NURS 206/NURS 206L, NURS 211/NURS 211L, NURS 217, NURS 286, and NURS 288.
Corequisites: NURS 210/NURS 210L, NURS 216, and NURS 289.
Fees: Yes.
NURS 217 Leadership for Professional Nursing Practice 2 Credits  
[AAS Program only] Socializes the student into the graduate registered nurse role. The focus is on the exploration and analysis of contemporary nursing practice, current trends and issues impacting nursing care delivery. Advanced leadership and management concepts are discussed as part of the nursing role.  
Prerequisites: All essential learning and prerequisites, and NURS 200.

NURS 246 Pharmacological Concepts I 3 Credits  
Introduction to basic pharmacology concepts, which include interactions, classification, adverse effects, drug dosages and math calculations.  
Prerequisites: Admission into the Associate of Applied Science in Nursing program.  
Corequisites: NURS 247 and NURS 247L.  
Terms Typically Offered: Fall.

NURS 247 Fundamentals of Nursing 3 Credits  
Exploration of nursing concepts and skills utilized in the nursing process to develop critical thinking. Application of essential nursing skills including IV skills for safe practice.  
Prerequisites: Admission into the Associate of Applied Science in Nursing program.  
Corequisites: NURS 246 and NURS 247L.  
Terms Typically Offered: Fall.

NURS 247L Fundamentals of Nursing Laboratory 2 Credits  
Lab component required for NURS 247.  
Prerequisites: Admission into the Associate of Applied Science in Nursing program.  
Corequisites: NURS 246 and NURS 247.  
Terms Typically Offered: Fall.

NURS 248 Adult Concepts of Health I 4 Credits  
Exploration of the role of registered nurse as a care provider, teacher, manager, professional, and advocate. Explores disease processes across the life span.  
Prerequisites: NURS 246, NURS 247, and NURS 247L.  
Corequisites: NURS 248L, NURS 249, NURS 250, and NURS 250L.  
Terms Typically Offered: Spring.

NURS 248L Adult Concepts of Health I Laboratory 3 Credits  
Lab component required for NURS 248.  
Prerequisites: NURS 246, NURS 247, and NURS 247L.  
Corequisites: NURS 248, NURS 249, NURS 250, and NURS 250L.  
Terms Typically Offered: Spring.

NURS 249 Pharmacological Concepts II 3 Credits  
Integration of concepts in pharmacology with a focus on high risk medications, drug calculations, and teaching.  
Prerequisites: NURS 246, NURS 247, and NURS 247L.  
Corequisites: NURS 248, NURS 248L, NURS 249, and NURS 250L.  
Terms Typically Offered: Spring.

NURS 250 Health Assessment for Nurses 3 Credits  
Acquisition of knowledge and skills necessary for completing health assessment across the life span.  
Prerequisites: NURS 246, NURS 247, and NURS 247L.  
Corequisites: NURS 248, NURS 248L, NURS 249, and NURS 250L.  
Terms Typically Offered: Spring.

NURS 250L Health Assessment for Nurses Laboratory 1 Credit  
Lab component required for NURS 250.  
Prerequisites: NURS 246, NURS 247, and NURS 247L.  
Corequisites: NURS 248, NURS 248L, NURS 249, and NURS 250.  
Terms Typically Offered: Spring.

NURS 251 Adult Concepts of Health II 5 Credits  
Exploration of critical care needs of adult patients. Previous knowledge is integrated throughout to assist with optimal functioning in various complex health care situations.  
Prerequisites: NURS 248, NURS 248L, NURS 249, NURS 250, and NURS 250L.  
Corequisites: NURS 251L, NURS 252, and NURS 252L.  
Terms Typically Offered: Fall.

NURS 251L Adult Concepts of Health II Laboratory 4 Credits  
Lab component required for NURS 251.  
Prerequisites: NURS 248, NURS 248L, NURS 249, NURS 250, and NURS 250L.  
Corequisites: NURS 251, NURS 252, and NURS 252L.  
Terms Typically Offered: Fall.

NURS 252 Mental Health Concepts in Nursing 3 Credits  
Exploration of psychosocial concepts with a focus on maintaining mental health of the community, individual, and family.  
Prerequisites: NURS 248, NURS 248L, NURS 249, NURS 250, and NURS 250L.  
Corequisites: NURS 251, NURS 251L, and NURS 252L.  
Terms Typically Offered: Fall.

NURS 252L Mental Health Concepts in Nursing Laboratory 2 Credits  
Lab component required for NURS 252.  
Prerequisites: NURS 248, NURS 248L, NURS 249, NURS 250, and NURS 250L.  
Corequisites: NURS 251, NURS 251L, and NURS 252L.  
Terms Typically Offered: Fall.

NURS 253 Family Nursing Obstetrics and Pediatrics 4 Credits  
Exploration of family health with particular focus on pregnant women and the developmental health of infants, children, and adolescents.  
Prerequisites: NURS 251, NURS 251L, NURS 252, and NURS 252L.  
Corequisites: NURS 253L, NURS 254, and NURS 254L.  
Terms Typically Offered: Spring.

NURS 253L Family Nursing Obstetrics and Pediatrics Laboratory 2 Credits  
Lab component required for NURS 253.  
Prerequisites: NURS 251, NURS 251L, NURS 252, and NURS 252L.  
Corequisites: NURS 253, NURS 254, and NURS 254L.  
Terms Typically Offered: Spring.

NURS 254 Leadership/Capstone 2 Credits  
Exploration of management and leadership theory with special emphasis on the role of the Registered Nurse as a change agent within health care. Emphasis on lifelong learning, caring, and collaboration which will involve clinical hours.  
Prerequisites: NURS 251, NURS 251L, NURS 252, and NURS 252L.  
Corequisites: NURS 253, NURS 253L, and NURS 254L.  
Terms Typically Offered: Spring.

NURS 254L Leadership/Capstone Laboratory 4 Credits  
Lab component required for NURS 254.  
Prerequisites: NURS 251, NURS 251L, NURS 252, and NURS 252L.  
Corequisites: NURS 253, NURS 253L, and NURS 254.  
Terms Typically Offered: Spring.

NURS 286 Advanced Pharmacology for Nurses 2 Credits  
Focuses on advanced concepts of pharmacology within nursing with an emphasis on nursing process, drug doses, calculations and relevant assessments and patient teaching.  
Prerequisites: LPN license.  
NURS 288 Health and Physical Assessment for Nursing2 Credits
[AAS Program only] Development of the knowledge necessary for completing health assessment across the life span. History taking, physical assessment skills, and principles of health promotion are utilized to develop appropriate interventions designed to assist clients with health promotion and life style changes.
Prerequisites: All essential learning and prerequisites.
Corequisites: NURS 206 and NURS 200.
Fees: Yes.

NURS 289 Capstone: Comprehensive Nursing Internship2 Credits
Facilitates transition from student to graduate nurse through application of nursing principles and skills in an area of health care delivery. Critical thinking, life long learning, nursing process, caring, collaboration, and health teaching and promotion are emphasized.
Prerequisites: All prerequisites for the AAS program, NURS 200, NURS 206/NURS 206L, NURS 211/NURS 211L, NURS 217, NURS 286, NURS 288.
Corequisites: NURS 210/NURS 210L and NURS 216/NURS 216L.

NURS 300 Developing the Baccalaureate Role3 Credits
Designed to facilitate the transition from diploma or associate degree registered nurse to professional practice of nursing at the baccalaureate level. Development of leadership and management skills in the context of the dynamic field of health care including effective communication, resolution, critical thinking, management of resources and quality improvement. Focus on the role of nurse leader and manager as a safety using evidence based practice principles. Prerequisites for RN-BSN students: RN licensure and admission to RN-BSN program. All prerequisite essential learning course work for the BSN degree must be completed before starting the 300-level nursing courses.

NURS 302 Family Nursing Through the Lifespan3 Credits
Theory of family-centered practice in nursing. Utilization of nursing process. Collect and analyze data to formulate and evaluate intervention with families from diverse backgrounds. Selected learning experiences provide opportunities for development of cognitive, psychomotor and effective competencies essential to the care of both healthy and high-risk families through the lifespan.
Prerequisites: NURS 201/NURS 201L, NURS 202/NURS 202L, NURS 203, and NURS 204.
Corequisites: NURS 301/NURS 301L, and NURS 303.

NURS 318 Health Assessment and Promotion3 Credits
Development of the knowledge necessary for completing health assessment across the life span. History taking, physical assessment skills, and principles of health promotion are utilized to develop appropriate interventions designed to assist clients with health promotion and prevention over the life span.
Prerequisites: Admission to the LPN-BSN program.
Corequisites: NURS 318L, NURS 329, NURS 329L, NURS 333, and NURS 400.

NURS 318L Health Assessment and Promotion Laboratory1 Credit
Exploration of advanced topics in network and web-based application security such as network vulnerability management, network monitoring, intrusion detection and prevention, government and industry security compliances, wireless security, most common web application security flaws, browser and database security principles, and authentication and authorization in web applications.
Prerequisites: Admission to the LPN-BSN Program.
Corequisites: NURS 318, NURS 329, NURS 329L, NURS 333, and NURS 400.
Fees: Yes.

NURS 320 Health Assessment and Promotion for the Nurse3 Credits
Apply knowledge necessary for completing a child, adult, and geriatric client health assessment. Use history taking and physical assessment skills to develop appropriate interventions designed to assist clients with health promotion and lifestyle changes. Apply principles of health promotion through the life span in a variety of settings.
Prerequisites: Admission to the RN-BSN Program or practicing RN with current license and permission of instructor.
Corequisites: NURS 320.

NURS 320L Health Assessment and Promotion for the Nurse Laboratory1 Credit
Application of knowledge necessary for completing a child, adult, and geriatric client health assessment. Use of history-taking and physical assessment skills to develop appropriate interventions designed to assist clients with health promotion and lifestyle changes. Application of principles of health promotion through the lifespan in a variety of settings.
Prerequisites: Admission into RN-BSN program or practicing RN with current license and permission of instructor.
Corequisites: NURS 320.

NURS 329 Advanced Adult Health 13 Credits
Exploration of the registered professional nurse as care provider, teacher, manager, professional, and advocate in meeting the nursing care needs of adults across the life span.
Prerequisites: Admission into the LPN-BSN Program.
Corequisites: NURS 318, NURS 318L, NURS 329, NURS 333, and NURS 400.

NURS 329L Advanced Adult Health I Laboratory3 Credits
Lab component required for NURS 329.
Prerequisites: Admission to the LPN-BSN program.
Corequisites: NURS 318, NURS 318L, NURS 329, NURS 333, and NURS 400.
Fees: Yes.

NURS 333 Basic Concepts of Pharmacology II2 Credits
Exploration of advanced concepts of pharmacology within nursing with an emphasis on nursing process, drug doses, calculations, relevant assessments, and patient teaching.
Prerequisites: Admission into the LPN-BSN program.
Corequisites: NURS 318, NURS 318L, NURS 329, NURS 333, and NURS 400.

NURS 350 Health Assessment Across the Lifespan3 Credits
Introduction to the basic skills of history taking and physical assessment of individuals through the lifespan. Emphasis on knowledge and skills necessary for conducting a systematic or focused health assessment and determining areas in which to implement health promotion activities.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 350L, NURS 353, NURS 353L, NURS 370, and NURS 372.
NURS 350L Health Assessment Across the Lifespan Laboratory 1 Credit
Application of knowledge and clinical skills in obtaining a health history and performing a physical examination of individuals across the lifespan. Focus is on the practice and refinement of psychomotor, communication, and critical thinking skills with an emphasis on privacy, confidentiality, and safety.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 350, NURS 353, NURS 353L, NURS 370, and NURS 372.
Fees: Yes.

NURS 353 Foundation of Nursing Practice 4 Credits
Introduction to the fundamentals of nursing practice and the knowledge required to implement patient-centered care through the lifespan in a variety of settings. Focus is on safety, basic nursing care, assessment, communication, documentation, and quality care.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 350, NURS 350L, NURS 353L, NURS 370, and NURS 372.

NURS 353L Foundations of Nursing Practice Laboratory 3 Credits
Application of fundamental concepts and evidenced-based nursing skills in settings that provide safe learning opportunities. Sites include clinical labs, simulation labs, and an array of local healthcare facilities.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 350, NURS 350L, NURS 353, NURS 370, and NURS 372.

NURS 370 Pharmacology for Nurses 13 Credits
Introduction to drug therapy including specific drug classifications, terminology, theories and techniques of safe administration. Focus on nursing considerations, utilizing the nursing process, and becoming proficient at medication calculations. Major content includes the basic concepts of pharmacology, commonly prescribed drugs, drug effects on body tissues, responses to drug therapy, and principles of therapy in various circumstances and populations.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 350, NURS 350L, NURS 353, NURS 353L, and NURS 372.

NURS 372 Professional Development I: Nursing Theory, Roles and Ethics 2 Credits
Introduction to knowledge, skills, and attitudes related to nursing practice. Emphasis on history of professional nursing, nursing theory, legal, ethical, and safety issues. Exploration of principles of communication, time management, and critical thinking as they relate to the professional nurse.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 350, NURS 350L, NURS 353, NURS 353L, and NURS 370.

NURS 373 Acute and Chronic Illness 14 Credits
Application of the nursing process in care of individuals and families experiencing deviations from usual levels of wellness. Exploration of pathophysiology of moderate intensity and relative stability. Emphasis on identification of coping mechanisms of individuals and families to assist in health recovery, health promotion, and the adoption of strategies for illness prevention.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 373L, NURS 388/NURS 388L, and NURS 394.

NURS 373L Acute and Chronic Illness I Clinical 3 Credits
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 373, NURS 388/NURS 388L, and NURS 394.
Fees: Yes.

NURS 388 Mental Health Nursing 3 Credits
Introduction to patient-centered, culturally sensitive approach to needs of individuals, families, and groups experiencing alterations in mental health across the lifespan. Emphasis on theoretical knowledge and evidence-based practice to promote, maintain and restore mental and emotional health. Exploration of use of self as a therapeutic tool, principles of therapeutic relationships and communication and a knowledge-base of psychopathology.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 373/NURS 373L, and NURS 388L and NURS 394.

NURS 388L Mental Health Nursing Clinical 2 Credits
Application of theory in care of clients with a wide-range of psychiatric and/or mental health disorders across the lifespan. Emphasis on the nurse's role in various treatment settings and current treatment modalities. Development of proficiency in mental health practice with diverse populations. Emphasis on therapeutic use of self with individuals and groups in a variety of community-based settings.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 373/NURS 373L, and NURS 388 and NURS 394.

NURS 394 Nursing Research: An Evidence-Based Practice 3 Credits
Exploration of nursing research and evidence-based practice in the process of scholarly inquiry in health care. Examination of research methodologies and related theories to facilitate development of a literature review and an evidence-based practice proposal to investigate nursing questions and outcomes. Emphasis on research as a basis for assessment of outcomes of health promotion and health care interventions.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 373/NURS 373L and NURS 388/NURS 388L.

NURS 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

NURS 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
NURS 400 Nursing Research3 Credits
Exploration of evidence-based practices related to outcomes within the health care setting. Research questions relevant to clinical practice are developed and pursued.
Prerequisites: Admission to the LPN-BSN program.
Corequisites: NURS 318, NURS 318L, NURS 329, NURS 329L, and NURS 333.

NURS 408 Health Information Systems3 Credits
Explores the use of information systems in health care and nursing practice. Examines current trends and issues in using, designing, and implementing health care information systems, healthcare information management, decision support and knowledge management applications in the context of challenges facing healthcare organizations today. Explores legal and ethical issues related to the protection of the privacy, confidentiality, and security of information in health care environments, utility of wide array of personal health information management and social networking tools in communicating health-related information.
Prerequisites: RN degree at the associate or diploma level; permission of instructor; application in to HITS program.

NURS 409 Quality Assessment and Improvement in Health Care Settings3 Credits
Prerequisites: Permission of instructor.

NURS 410 Population Health Nursing3 Credits
Exploration of theoretical basis for community and population health and the role of the nurse. Exploration of microsystems, applications of transitions of care, financing concepts in the community setting, and analysis of the health of populations. Emphasis on health promotion, disease prevention, using epidemiology, environmental health, health policy, aggregates, systems, populations, community assessment, and community interventions.
Prerequisites: NURS 320 and NURS 320L.
Corequisites: NURS 410L.

NURS 410L Population Health Nursing Practice Experience1 Credit
Application of theory in practice with diverse populations and aggregates in the community to achieve an optimum level of wellness. Emphasis on health disparities, cultural diversity, social justice, and health laws and policies related to population vulnerability throughout the life course. Exploration of the continuum of outpatient care in home health and collaboration with community services.
Prerequisites: NURS 320 and NURS 320L.
Corequisites: NURS 410.

NURS 415 Business of Health Care2 Credits
Appraisal of financial indicators on impact of health outcomes explored in the context of the professional's ability to provide quality care to a diverse patient population.
Prerequisites: NURS 403/NURS 403L, NURS 406/NURS 406L, and NURS 407.
Corequisites: NURS 411/NURS 411L, NURS 412L, and NURS 416.

NURS 417 Forensic Science: The Human Interface2 Credits
Introduces the principles of forensic science as they relate to care of individuals experiencing events which require intervention from both the legal and health care systems. Integrates concepts from health care, psychology, sociology, criminology used to clinically investigate crimes against humans. Focuses on the unique knowledge and attributes that health care professionals contribute to multidisciplinary forensic investigation. Addresses various aspects of forensic investigation including role of the forensic scientist in working with the victim and the perpetrator, wound identification and collection of evidence. Specific areas of domestic violence, sexual assault, elder abuse, gang behavior, death investigation, victims' advocacy and courtroom dynamics are included. Students will experience forensic investigation in clinical areas.
Prerequisites: Acceptance into the B.S.N. program, or permission of instructor.

NURS 418 Gerontological Nursing and Chronic Illness3 Credits
Evaluate current key clinical information and issues central to caring for the highly specialized physiological and psycho-social needs of older adults. Review of the current financial, social, political, and cultural issues that affect nursing care for the elderly explored through a geriatric nursing curriculum in a scientifically sound, holistic process to provide care to this vulnerable population.

NURS 420 Global Health3 Credits
This is a multidimensional course for nursing students who want to broaden their understanding of health care in the global community. The course involves pre-trip seminars, travel to a country of focus and post-trip sessions. Attendance is required at all sessions. Level Two nursing preparation recommended. The pre-trip seminars are conducted by the lead faculty and guest speakers. Students will prepare and present on topics during the seminars and will have opportunities to develop leadership skills. Within the focus country, students will travel as a group, meeting local health care professionals, student nurses, and nursing faculty. Students will volunteer alongside local providers, delivering care within their scope of practice and the boundaries delineated by the Ministry of Health. Opportunities to develop critical thinking skills; the nursing process and culturally sensitive care will be part of the pre-trip and in-country experiences. A post-trip seminar and a presentation to the community are also mandatory.

NURS 421 Population Health4 Credits
Approaches to care and finance in the community care setting. Application of population risk reduction used to develop nursing interventions for high risk aggregates.
Prerequisites: NURS 318, NURS 318L, NURS 329, NURS 329L, NURS 333, and NURS 400.
Corequisites: NURS 427, NURS 427L, and NURS 421L.

NURS 421L Population Health Laboratory2 Credits
Lab component required for NURS 421.
Prerequisites: NURS 318, NURS 318L, NURS 329, NURS 329L, NURS 333, and NURS 400.
Corequisites: NURS 421, NURS 427, and NURS 427L.
Fees: Yes.

NURS 426 Nursing Research and Evidence-Based Practice3 Credits
Emphasis on nursing research and evidence-based practice in the process of scholarly inquiry in health care. Examination of research methodologies and related theories to facilitate development of a research proposal to investigate health care questions and outcomes.
Prerequisites: MATH 110 or higher and STAT 200.
NURS 427 Mental Health3 Credits
Exploration of psychosocial integrity with emphasis on the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. This course emphasizes communication and caring through the application of the therapeutic relationship and nursing process in the care and treatment of common clinical conditions/disorders.
Prerequisites: NURS 318, NURS 318L, NURS 329, NURS 329L, NURS 333, and NURS 400.
Corequisites: NURS 421, NURS 421L, and NURS 427L.

NURS 427L Mental Health Laboratory1 Credit
Approaches to psychosocial integrity with emphasis on the function and responsibility of nursing in promoting and maintaining mental health of individuals and families. Students will develop proficiency in working with psychiatric clients in various settings in the community.
Prerequisites: NURS 318, NURS 318L, NURS 329, NURS 329L, NURS 333, and NURS 400.
Corequisites: NURS 421, NURS 421L, and NURS 427L. 
Fees: Yes.

NURS 429 Adult Health II3 Credits
Exploration of the role of the registered professional nurse as care provider, teacher, manager, professional, and advocate in meeting the complex medical and surgical health care needs of critically ill adult clients. Students are expected to integrate previous learning to assist the patient and family in achieving optimal functioning in various complex health care situations and settings.
Prerequisites: NURS 421, NURS 421L, NURS 427, and NURS 427L.

NURS 429L Adult Health II Laboratory3 Credits
Integration of previous learning to assist the patient and family in achieving optimal functioning in various complex health care situations and settings. In addition to inpatient acute care units, the student will rotate through the critical care areas of the health care facility.
Prerequisites: NURS 400, NURS 421, NURS 421L, NURS 427, and NURS 427L. 
Corequisites: NURS 429, NURS 431, NURS 431L, NURS 449, NURS 449L, and NURS 470.
Fees: Yes.

NURS 430 Leadership for the RN3 Credits
The multiple nursing leadership roles at the baccalaureate level. Business and culture of health care. Roles include mentorship, change agents that inform, direct, and manage the organizational structure, and evaluation of multiple health care systems. Evaluation of legislative and organizational policies influencing health care trends.
Prerequisites: Admission to the RN-BSN Program and NURS 426.
Corequisites: NURS 430L.

NURS 430L Leadership for the RN Laboratory1 Credit
Exploration of the multiple nursing leadership roles at the baccalaureate level. Business and culture of health care. Roles include mentorship, change agents that inform, direct, and manage the organizational structure, and evaluation of multiple health care systems. Evaluation of legislative and organizational policies influencing health care trends.
Prerequisites: Admission to the RN-BSN program, NURS 426, and NURS 428.
Corequisites: NURS 430.

NURS 431 High Risk Obstetrics/Pediatrics3 Credits
Exploration of advanced concepts in the care of the high-risk childbearing family and for children with complex health problems from birth through adolescence. Emphasizes special needs and complications during the prenatal experience and altered functioning.
Prerequisites: NURS 421, NURS 421L, NURS 427, and NURS 427L.
Corequisites: NURS 429, NURS 429L, NURS 431, NURS 449, NURS 449L, and NURS 470.

NURS 431L High Risk Obstetrics/Pediatrics Laboratory2 Credits
Application of advanced concepts in the care of the high-risk childbearing family and for children with complex health problems from birth through adolescence. Emphasizes special needs and complications during the prenatal experience and altered functioning.
Prerequisites: NURS 421, NURS 421L, NURS 427, and NURS 427L.
Corequisites: NURS 429, NURS 429L, NURS 431, NURS 449, NURS 449L, and NURS 470.
Fees: Yes.

NURS 432 Capstone Leadership for the RN4 Credits
Contributions of the registered nurse to quality health care through lifelong learning and professional development of herself/himself and others, research data generation, clinical supervision and development of policy, and clinical practice guidelines. The registered nurse develops their professional practice in accordance with the health needs of the population/society and changing patterns of disease and illness.
Prerequisites: NURS 300, NURS 320, NURS 320L, NURS 408, NURS 409, NURS 410, NURS 410L, NURS 418, NURS 426, NURS 430, and NURS 430L.

NURS 449 Leadership2 Credits
Exploration of leadership and management theory utilized in development of characteristics of a nurse leader. The role of the professional nurse as a change agent in shaping health care for the future is explored.
Prerequisites: NURS 421, NURS 421L, NURS 427, and NURS 427L.
Corequisites: NURS 429, NURS 429L, NURS 431, NURS 431L, NURS 449L, and NURS 470.

NURS 449L Leadership Laboratory1 Credit
Application of leadership and management theory utilized in development of characteristics of a nurse leader. The focus is on the exploration and analysis of contemporary nursing practice and current evidence-based practice as the basis for nursing care in the clinical setting.
Prerequisites: NURS 421, NURS 421L, NURS 427, and NURS 427L.
Corequisites: NURS 429, NURS 429L, NURS 431, NURS 431L, NURS 449L, and NURS 470.
Fees: Yes.

NURS 450 Intensive Care Areas Specialty Practice Preparedness3 Credits
Overview of the dynamics of the collaborative and independent nature of nursing practice within critical care, perioperative, and emergency nursing. Commonalities of practice areas will be explored within the context of the nursing process. Includes recognizing and analyzing pertinent diagnostic data and physical and psychosocial assessment data; identifying common patient health problems and interventions; and determining patient outcomes. Prerequisite to the in-depth specialty practice courses.
NURS 459 Family/Maternal/Child Nursing4 Credits
Introduction to nursing care of the childbearing family. Emphasis is on growth and developmentally appropriate management of the health and illness related needs of the mother, newborn, and child within the family. Exploration of physiological, psycho-social, and pathophysiological changes of the population. Application of nursing process to gather and analyze data and formulate interventions with culturally diverse families.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 459L, NURS 472, and NURS 473/NURS 473L.

NURS 459L Family/Maternal/Child Nursing Clinical3 Credits
Application of the nursing care of the childbearing family. Emphasis on growth and development and management of the health and illness needs of the mother, newborn, and child within the family. Exploration of nursing care in Labor and Delivery, post-partum, newborn, and pediatrics will incorporate physiological, psycho-social, and pathophysiological changes of the population.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 459, NURS 472, NURS 473, and NURS 473L.

Fees: Yes.

NURS 470 Capstone2 Credits
Application of nursing principles and skills in an area of health care delivery. Critical thinking, lifelong learning, nursing process, caring, collaboration, and health teaching and promotion are emphasized.
Prerequisites: NURS 421, NURS 421L, NURS 427, and NURS 427L.
Corequisites: NURS 429, NURS 429L, NURS 431, NURS 431L, NURS 449, and NURS 449L.

NURS 472 Professional Development II: Health Informatics3 Credits
Exploration of information systems in health care and nursing practice. Exploration of current trends and issues in using, designing, and implementing health care information systems, healthcare information management, decision support, and knowledge management applications. Introduction of legal and ethical issues, management, and social networking tools in communicating health-related information.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 459/NURS 459L, and NURS 473/NURS 473L.

NURS 473 Acute and Chronic Illness I4 Credits
Application of critical thinking skills and the nursing process in caring for individuals in the acute care setting. Emphasis on disease pathophysiology, patient teaching, and continuity of care upon discharge. Exploration of coping mechanisms, adaptation, and implementation of health care strategies in acute illness.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 459/NURS 459L, NURS 472, and NURS 473L.

NURS 473L Acute and Chronic Illness I Clinical3 Credits
Application of theory to complete comprehensive assessments and plan care for patients in acute and critical care. Exploration of health problems in critical care, emergency, medical-surgical units, invasive procedure labs, renal dialysis, specialized healthcare teams, and other acute care clinical areas. Introduction of the high fidelity simulation lab.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 459, NURS 459L, NURS 472, and NURS 473.
Fees: Yes.

NURS 480 Basic Concepts in Palliative Care2 Credits
Provides basic theory about the practice of hospice and palliative care with focus on the consequences of progressive, predictable disease, providing attention to the whole person and family, and using scientific practice in developing treatment for pain and symptoms. Explores assessment, advanced communication skills, responses to loss, advance care planning, symptom management, and cultural and ethical issues.
Prerequisites: Prior RN degree and licensure, and current enrollment in the BSN program.

NURS 482 Professional Development III: The Professional Nurse2 Credits
Exploration of transitioning into professional nursing practice. Emphasis on scope of practice, delegation, professional development, and licensure. Exploration of health care systems as they relate to quality improvement, patient outcomes, finance, and policy development.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 487/NURS 487L, NURS 490/NURS 490L, NURS 492, and NURS 493/NURS 493L.

NURS 487 Community and Population Nursing3 Credits
Exploration of theoretical basis for community and population health and the role of the nurse. Exploration of microsystems, applications of transitions of care, financing concepts in the community setting, and analysis of the health of populations. Emphasis on health promotion, disease prevention, using epidemiology, environmental health, health policy, aggregates, systems, populations, community assessment, and community interventions.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 482, NURS 487L, NURS 490/NURS 490L, NURS 492, and NURS 493/NURS 493L.

NURS 487L Community and Population Nursing Clinical2 Credits
Application of theory in practice with diverse populations and aggregates in the community to achieve an optimum level of wellness. Emphasis on health disparities, cultural diversity, social justice, and health laws and policies related to population vulnerability throughout the lifespan. Exploration of the continuum of outpatient care in home health and collaboration with community services.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 482, NURS 487, NURS 490/NURS 490L, NURS 492, and NURS 493/NURS 493L.

NURS 490 Nursing Leadership and Management2 Credits
Exploration of nurses functioning in leadership and management capacity and plans for entry into practice. Application of components of leadership to the delivery of care and the role of the nurse in shaping the future of health care. Examination of trends and issues impacting nursing and the future of health care delivery systems.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 482, NURS 487/NURS 487L, NURS 490L, NURS 492, and NURS 493/NURS 493L.
NURS 490L Nursing Leadership and Management Clinical1 Credit
Application of theory into practice while functioning in a leadership and management capacity. Clarification of short and long-term career goals and plans for other aspects of entry into practice. Development and evaluation of individual learning objectives throughout the clinical rotation. Application of theory in the role of a mentor with other nursing students.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 482, NURS 487, NURS 487L, NURS 490, NURS 492, NURS 493, and NURS 493L.
Fees: Yes.

NURS 492 Pharmacology for Nurses II2 Credits
Application of concepts of clinical pharmacology including preparation for the NCLEX exam. Emphasis on major drug classifications, nursing considerations, and patient education. Exploration of ethical, legal, and economic factors.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 482, NURS 487/NURS 487L, NURS 490/NURS 490L, and NURS 493/NURS 493L.

NURS 493 Senior Capstone1 Credit
Synthesis of theoretical nursing concepts through the use of case studies, application exercises, and simulation activities.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 482, NURS 487/NURS 487L, NURS 490/NURS 490L, NURS 492, and NURS 493L.

NURS 493L Senior Capstone Clinical3 Credits
Synthesis of knowledge and skills learned in the Baccalaureate program. Refinement of nursing practice skills in a safe learning environment using guided clinical experiences.
Prerequisites: Admission to the BSN program. Foundation courses required. See program sheet for details.
Corequisites: NURS 482, NURS 487, NURS 487L, NURS 490, NURS 490L, NURS 492, and NURS 493.
Fees: Yes.

NURS 495 Independent Study1-4 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

NURS 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

NURS 500 Theoretical Foundations3 Credits
Focuses on the critical components of contemporary nursing knowledge, including concepts, statements, metaparadigms, philosophies, conceptual models, and theories. Evaluates the variety of ways to organize nursing knowledge and explore the implications of their application. Through the clinical application of the course content, students examine the use of theory and nursing knowledge in professional environments.
Prerequisites: Admission to the MSN or DNP program.

NURS 501 Nursing Research Methods3 Credits
Provides an introduction to advanced research concepts and methodologies. It will explore the application of research to evidence-based practice as well as a broader scope of application to a variety of nursing research projects. Application of statistical concepts in data analysis and use of PASW computerized data analysis will assist the student to evaluate research findings and application to nursing practice.
Prerequisites: Bachelor of Science in Nursing Degree.

NURS 502 Health Information Systems3 Credits
Explores the use of information systems in health care and nursing practice. Examines current trends and issues in using, designing, and implementing health care information systems, healthcare information management, decision support and knowledge management applications in the context of challenges facing healthcare organizations today. Explores legal and ethical issues as related to the protection of the privacy, confidentiality, and security of information in health care environments, utility of a wide array of personal health information management and social networking tools in communicating health-related information.
Prerequisites: Bachelor of Science in Nursing Degree.

NURS 503 Organizational Leadership3 Credits
Utilizes leadership and management theory and application to develop skills or the understanding and implementation of change. Components of the course include leadership theory and models, change theory and models, project management and systems theory, financial management, organizational culture, and continuous process improvement.
Prerequisites: Admission to the MSN or DNP program.

NURS 504 Health Policy3 Credits
Prepares students to analyze policy issues, enhance their political knowledge and skills, and prepare for leadership roles in health policy-making. Cultivates understanding of political and economic forces related to nursing and health care delivery. Develops skills in influencing policy decisions related to health care, strategic partnerships, lobbying, use of media, and working with communities in today's changing health care environment.
Prerequisites: Bachelor of Science in Nursing Degree.

NURS 505 Quality Assessment and Improvement in Health Care Settings3 Credits
Prerequisites: Admission to the MSN or DNP program.

NURS 525 Pathophysiologic Concepts3 Credits
Focus on advanced concepts in pathophysiological processes and disease/disorder management.
Prerequisites: Admission to the MSN or DNP program.

NURS 526 Pharmacology for Advanced Nurse Practitioners3 Credits
Major drug classifications and the nursing management required for drug therapy. Core drug knowledge (pharmacotherapeutics, pharmacokinetics, pharmacodynamics, contraindications and precautions, adverse effects, and drug interactions) presented. Patient variables (health status, lifespan and gender, lifestyle, diet, and habits, environment, and culture) and their use in accurate patient assessment in drug therapy presented. Emphasizes importance of nursing management in drug therapy (maximizing therapeutic effect, minimizing adverse effects, and patient and family education). Foundation knowledge of basic pharmacology necessary for advanced prescriptive authority in the State of Colorado.
Prerequisites: Bachelor of Science in Nursing Degree.

NURS 527 Advanced Health Assessment3 Credits
Focused and comprehensive health assessment of clients across the lifespan. Includes diverse populations, biological, psychological, sociological, spiritual, and cultural aspects. Diagnostic reasoning emphasized as the primary means of collecting and analyzing data from client history, physical examination, and diagnostic procedures.
Prerequisites: Bachelor of Science in Nursing Degree.
NURS 530 Chronic Illness Management3 Credits
Provides a framework for competency in chronic illness and disease which now accounts for a large percentage of the nation’s health care costs. Introduction to the prevalence of chronic disease and its impact on the individual, family, community, and society is explored. Explores nursing’s role in prevention and intervention of specific medical diseases, and psychosocial aspects of chronic illness and disability.
Prerequisites: Bachelor of Science in Nursing Degree.

NURS 535 Health Promotion and Disease Prevention3 Credits
Concentrates on the theories and principles involved in the planning and implementation of nursing interventions appropriate for health promotion and disease prevention with diverse populations across the life span. Focus is on wellness in children, adults and elderly emphasizing family-centered care that incorporates screening, teaching, and health counseling with strong health promotion focus across settings. Health promotion and disease prevention strategies to reduce health disparities with an emphasis on national health goals will be addressed.
Prerequisites: Bachelor of Science in Nursing Degree.

NURS 540 Teaching Strategies for the Nurse Educator3 Credits
Theories, principles, and application of evidence-based teaching strategies that promote proficiency in teaching and learning. Learning environment development that supports nursing student success across a variety of settings from clinical to classroom. Integration of didactic learning with an educational practicum.
Prerequisites: Bachelor of Science in Nursing Degree.

NURS 545 Curriculum Design/Evaluation3 Credits
Functional approaches to curriculum design and educational programs in nursing. Philosophical foundations of nursing education and curriculum development. Models for curriculum design and development of educational program models with the context of organizational mission and philosophy, philosophical or theoretical frameworks, and desired learning outcomes and competencies.
Prerequisites: Bachelor of Science in Nursing Degree.

NURS 560 Nurse Educator Practicum3 Credits
Education of the nurse educator through the practicum experience that integrates knowledge from previous courses. Students will integrate theory in a reality context of the teaching role. Opportunities to participate in all aspects of the educator role, including academic settings, and direct care environments are provided.
Prerequisites: Satisfactory completion of Required Core Courses (15 hours); Nursing Education Cognate (15 hours).

NURS 575 Capstone Project3 Credits
Development of capstone project demonstrates synthesis of graduate work and establishes groundwork for future scholarship. Capstone project reflects the student’s clinical practice setting with a selected population group. Culminates in a formal paper and presentation in an academic setting.
Prerequisites: NURS 500, NURS 501, NURS 502, NURS 503, NURS 504, NURS 505, NURS 525, NURS 526, and NURS 527.

NURS 580 Thesis3 Credits
Development of thesis. Synthesis of graduate work. Establishes groundwork for future scholarship. Topic chosen for thesis should reflect the student’s nursing practice setting with a selected population group. Thesis project involves original research. Culminates in dissemination of findings in a formal paper to be submitted for publication.
Prerequisites: NURS 500, NURS 501, NURS 502, NURS 503, NURS 504, NURS 505, NURS 525, NURS 526, and NURS 527.

NURS 595 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

NURS 596 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

NURS 600 Advanced Practice Nursing Issues2 Credits
Roles and responsibilities of the nurse practitioner in augmenting client health and health services. Examines the history of nurse practitioners, client relations, and legal and ethical considerations. Interdisciplinary teams, health policy formation and political strategies considered. Professional involvement and practice, leadership, collaboration and teamwork in various settings examined.
Prerequisites: Bachelor of Science in Nursing Degree, Master of Science in Nursing Degree, or completion of 500-level coursework.

NURS 601 Primary Care of the Child/Adolescent3 Credits
Focuses on primary care of the child and adolescent, beginning with the newborn. Growth, nutrition, well client care and guidance, assessment, diagnosis and management of acute and chronic conditions in the client population. Culture and ethnic considerations, child development, family, environment theories and concepts integrated throughout the didactic and clinical components.
Prerequisites: NURS 602 and NURS 620; or NURS 603 and NURS 630. Corequisites: NURS 610.

NURS 602 Primary Care of the Adult3 Credits
Principles and issues relevant to Advance Practice Nursing in Primary Care. Emphasis on health care management of adult patients with stable chronic and/or multiple complex problems utilizing clinical relevant research and guidelines. Primary health care, including wellness counseling of healthy adults, management of acute and chronic conditions of adults, referral of conditions requiring management by other health professionals, and community implications related to the health of adults explored. Examines evidenced-based trends and issues in the health of adults. Explores health promotion research.
Prerequisites: Bachelor of Science in Nursing Degree, Master of Science in Nursing Degree, or completion of 500-level coursework.
Corequisites: NURS 620.

NURS 603 Primary Care of the Older Person3 Credits
Primary care of older adults with complex geriatric conditions and issues impacting care across a variety of settings. Preparations to meet the medical, bio-psychosocial and functional needs for the aging person with acute and chronic illness through appropriate assessment, diagnostic and management activities.
Prerequisites: Admission to the MSN or DNP program.
Corequisites: NURS 630.

NURS 604 Primary Care of Rural Populations1 Credit
Theoretical concepts of primary care in care of rural population groups. Explores unique aspects of advanced practice nursing role in rural care.
Prerequisites: NURS 602 and NURS 620; or NURS 603 and NURS 630. Corequisites: NURS 640.

NURS 610 Clinical Practicum: Child/Adolescent3 Credits
Application of theoretical concepts of primary care in care of children and adolescents. Integration of health assessment, pathophysiology, pharmacology, health promotion and disease prevention, chronic and acute illness management in clinical practice as an advanced practice nurse.
Prerequisites: NURS 602 and NURS 620; or NURS 603 and NURS 630. Corequisites: NURS 601.
Prerequisites:

- NURS 620 Clinical Practicum: Adult
- NURS 625 Statistics for Health Sciences
- NURS 626 Epidemiology
- NURS 630 Clinical Practicum: Older Person
- NURS 640 Clinical Practicum: Rural Health Care
- NURS 650 Family Nurse Practitioner Preceptorship

NURS 620 Clinical Practicum: Adult
Application of theoretical concepts of primary care of adults. Integration of health assessment, pathophysiology, pharmacology, health promotion and disease prevention, chronic and acute illness management in clinical practice.

**Prerequisites:** Bachelor of Science in Nursing Degree, Master of Science in Nursing Degree, or completion of 500-level coursework.

**Corequisites:** NURS 602.

NURS 625 Statistics for Health Sciences
Advances knowledge and skills to effectively use biostatistics in research design and data analysis. Includes choosing correct statistical methods and study designs in nursing research and practice; descriptive statistics; common measures of disease frequency, probability and probability distributions; estimation and hypothesis testing, correlation, t-tests, analysis of variance, analysis section of research publications and use of statistical software for data analysis.

**Prerequisites:** NURS 500, NURS 501, NURS 502, NURS 503, NURS 504, NURS 505, NURS 525, NURS 526, and NURS 527.

NURS 626 Epidemiology
Explores epidemiological concepts and biostatistics as applied to public health problems. Advanced clinical nursing practice. Emphasizes principles and methods of epidemiologic investigation, appropriate summaries and displays of data. Use of classical statistical approaches in measuring health of the population. Explores understanding the causes of poor health, screening, developing interventions for disease prevention and control. Improving health and reducing health disparities. Translating evidence into practice and evaluating the impact of policies and programs. Includes dynamic behavior of disease, usage of rates, ratios and proportions, epidemiologic study designs for investigating associations between risk factors and disease outcomes. Criteria for causal inferences, legal and ethical issues. Application of epidemiology in health services, screening, genetics, and environment policy presented.

**Prerequisites:** NURS 500, NURS 501, NURS 502, NURS 503, NURS 504, NURS 505, NURS 525, NURS 526, NURS 527, NURS 530, NURS 535, and NURS 602 and NURS 620 or NURS 603 and NURS 630.

NURS 630 Clinical Practicum: Older Person
Application of theoretical concepts in primary care in care of elderly. Integration of health assessment, pathophysiology, pharmacology, health promotion and disease prevention, chronic and acute illness management in clinical practice.

**Prerequisites:** Admission to the MSN or DNP program.

**Corequisites:** NURS 603.

NURS 640 Clinical Practicum: Rural Health Care
Application of theoretical concepts of primary care in care of rural population groups. Integration of health assessment, pathophysiology, pharmacology, health promotion and disease prevention, chronic and acute illness management in clinical practices. Explores unique aspects of advanced practice nursing role in rural health care.

**Prerequisites:** NURS 602 and NURS 620; or NURS 603 and NURS 630.

**Corequisites:** NURS 604.

NURS 650 Family Nurse Practitioner Preceptorship
Focus on the role of a Family Nurse Practitioner in the client-care setting with selected populations. Experience designed to integrate and synthesize preceding clinical and didactic course knowledge and skills. Experience in the role of an advanced practice nurse with an approved preceptor/mentor.

**Prerequisites:** NURS 601, NURS 602, NURS 603, NURS 604, NURS 610, NURS 620, NURS 630, and NURS 640.

NURS 652 Family Nurse Practitioner Preceptorship II
Focus on the role of a Family Nurse Practitioner in the patient-care setting. Experience designed to integrate and synthesize preceding clinical and didactic course knowledge and skills at an "independent skill level".

**Prerequisites:** NURS 650.

**Terms Typically Offered:** Fall, Spring.

NURS 660 Transition to the Doctor of Nursing Practice
Concepts of professional growth, role development, and evidence-based practice for the Doctor of Nursing Practice (DNP) in advanced nursing practice. Professional practice, leadership, teamwork, collaboration, communication, legal, ethical, and project problem development for the DNP are formalized.

**Prerequisites:** NURS 600, NURS 602, NURS 604, NURS 625, NURS 626, NURS 640, and NURS 700.

NURS 700 Evidence-Based Practice
Preparations to discover, examine, and evaluate knowledge, theories, and creative approaches to health care. Skills to: a) identify research questions in practices; b) critically evaluate existing practice in the light of research findings; and c) develop strategies to incorporate research findings into the clinical setting.

**Prerequisites:** Bachelor of Science in Nursing Degree, Master of Science in Nursing Degree or completion of 500-level coursework; NURS 650.

NURS 750 Doctor of Nursing Practice Project: Evidence-Based Practice
Focuses on initial development of scholarly project proposal that demonstrates synthesis of doctoral work and lays the ground work for future scholarship. Emphasis on use of evidence to improve either practice or patient outcomes. Scholarly project reflects clinical immersion in a practice setting with a selected population group.

**Prerequisites:** NURS 600, NURS 601, NURS 602, NURS 603, NURS 604, NURS 610, NURS 620, NURS 630, NURS 640, and NURS 660.

NURS 760 Doctor of Nursing Practice Project: Evidence-Based Practice II
Culmination of scholarly project includes translation of research into practice and the dissemination and integration of new knowledge into clinical practice as an advanced practice nurse. Evidence is generated through a practice setting to guide improvements in practice and outcomes of care.

**Prerequisites:** NURS 750.

NURS 795 Independent Study
Course may be taken multiple times up to maximum of 6 credit hours.
OFFICE ADMINISTRATION (OFAD)

**OFAD 196 Topics** 1-3 Credits  
Course may be taken multiple times up to maximum of 15 credit hours.

**OFAD 291 Service Learning** 3-12 Credits  
Practical use of educational training through joint supervision of a participating business organization and a designated faculty member. Provides opportunity to supplement course work with practical work experience either on a paid or volunteer basis. Work experience must be related to educational program/occupational objectives and requires designated faculty member approval. Provides opportunity of service to the community utilizing knowledge and skills acquired.  
**Prerequisites:** Final semester or sophomore standing.

**OFAD 296 Topics** 1-3 Credits  
Course may be taken multiple times up to maximum of 15 credit hours.
PHILOSOPHY (PHIL)

PHIL 105 Critical Thinking-GTAH33 Credits
An introduction to the basic skill of critical reading, writing, and thinking needed for the intelligent, responsible, and ethical construction of one’s worldview, conduct of one’s life, and execution of one’s civic duties. Topics include: argument identification, analysis, and construction; avoidance of common fallacies of reasoning; common deceptive and manipulative uses of language; writing clear and convincing argumentative essays.

Essential Learning Categories: Humanities

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

PHIL 110 Introduction to Philosophy-GTAH33 Credits
Includes an orientation to the discipline’s concerns, branches, major schools of thought, and its relationship to other disciplines; a selection of readings from philosophers of all historical periods concerning major philosophical issues; practice in the process of philosophical reasoning, the critical analysis of philosophical writings, and the most basic rules of logic.

Essential Learning Categories: Humanities

PHIL 120 Ethics-GTAH33 Credits
Introduction to theoretical and applied Ethics. Major moral philosophers and moral theories surveyed. A general approach to moral reasoning developed. Development applied to discussion of recent writings on such issues as euthanasia, abortion, war, capital punishment, affirmative action, etc.

Essential Learning Categories: Humanities

PHIL 130 Philosophy of Religion-GTAH33 Credits
Exploration of fundamental issues regarding religion and examination of the principles of inquiry involved in dealing with such issues philosophically. Issues include the concept of God, arguments for the existence of God, the relationship between faith and reason, the validity of religious experience, pluralism in world religions, etc.

Essential Learning Categories: Humanities

PHIL 150 Philosophical Forum3 Credits
Engagement with, and confrontation of, issues that challenge the community of Grand Junction and the Western Slope. Forum for speakers with varying positions and perspectives on economic, environmental, legal, social and cultural controversies. The deeper philosophical implications will remain in the forefront of the discussion.

PHIL 275 Introduction To Logic3 Credits
Forms of reasoning, valid versus fallacious inferences, strong versus weak arguments. Designed to increase the ability to reason clearly and correctly and follow and critically evaluate the reasoning of others.

PHIL 296 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

PHIL 340 The Examined Life3 Credits
Introduction to practical philosophy. The application of philosophy to one’s life in order to work toward the Socratic goal of living well. Topics covered include: Socratic thought, wisdom, Epicureanism, Stoicism, mindfulness, limiting beliefs, acceptance of reality, the self, creativity.

PHIL 350 The Roots of Western Thought3 Credits
Examination of the development of Western philosophical thought from its inception with the ancient Hellenes, through the Hellenistic and Medieval periods. Philosophical methods and problems will be discussed, including (but not limited to): ontology, metaphysics, political and social thought, death and the afterlife, the influence of philosophy on Christianity, the nature of the universe, human nature, the development of science and logic. Philosophers covered will include: The Presocratics, Socrates, Plato, Aristotle, Augustine, Aquinas, and others.

PHIL 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

PHIL 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

PHIL 410 Major Thinker3 Credits
In-depth study of one or two important philosophers. Attention paid to their historical, cultural, scientific, and philosophical contexts. Examination of relevant portions of the philosophers’ works, arguments, objections, and responses. Additional emphasis on the place of the thinkers in the “great conversation” that is philosophy via related primary and secondary texts.

Course may be taken 4 times for credit.

PHIL 420 Major Works3 Credits
In-depth study of the major and classic philosophical works of a philosopher or philosophical school. Emphasis on the historical, cultural, scientific, and philosophic contexts of the works. Examination of texts as they are situated in the philosopher’s or school’s opus, along with important influential writings preceding and following works influenced by these texts.

Course may be taken 4 times for credit.

PHIL 430 Major Issues3 Credits
In-depth study of major and classic philosophical issues, with attention to their historical development, major contributors, and seminal texts. Exploration of the important works surrounding the issue and important objections and responses, with a view to developing individual positions.

Course may be taken 4 times for credit.

PHIL 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

PHIL 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
PHYSICIAN ASSISTANT (PHAS)

PHAS 501 Biomedical Science4 Credits
Exploration of the physiologic and pathophysiologic process influencing the human organism. Explores basic principles of cell biology, histology, embryology, immunology, genetics, and infectious process. Focuses on pathophysiology related to the molecular, organ, and system level mechanisms of disease progression and manifestation.
Corequisites: BIOL 500, BIOL 500L, PHAS 502, PHAS 510, PHAS 520, PHAS 520L, PHAS 530, and PHAS 541.
Terms Typically Offered: Spring.

PHAS 502 Clinical Pharmacology3 Credits
Introduction to foundational concepts of pharmacotherapeutics, pharmacodynamics, pharmacokinetics, drug nomenclature, drug interactions, drug classifications, adverse effects, drug contraindications, and precautions. Prescriptive writing, prescriptive authority, and prescriptive medical-legal regulations will be explored.
Corequisites: BIOL 500, BIOL 500L, PHAS 501, PHAS 510, PHAS 520, PHAS 520L, PHAS 530, and PHAS 541.
Terms Typically Offered: Spring.

PHAS 503 Health Promotion and Disease Prevention2 Credits
Theories and concepts involved in the planning and implementation of appropriate individual and community interventions to promote health and prevent disease in patients across the lifespan. Focuses on concepts of nutrition, exercise, and behavioral interventions important in health promotion.
Prerequisites: PHAS 111, PHAS 521, and PHAS 531.
Corequisites: PHAS 512, PHAS 522, and PHAS 532.
Terms Typically Offered: Fall.

PHAS 510 Foundation to Clinical Medicine2 Credits
Introduction to concepts of holistic, relationship-centered medical principles needed for the clinical medicine series. Introduces principles of epidemiology and public health, government health care regulations, including HIPPA, OSHA, and meaningful use of electronic medical records. Focuses on common screening and diagnostic laboratory studies, as well as foundational skills in radiological imaging.
Corequisites: BIOL 500, BIOL 500L, PHAS 501, PHAS 502, PHAS 520, PHAS 520L, PHAS 530, and PHAS 541.
Terms Typically Offered: Spring.

PHAS 511 Clinical Medicine I13 Credits
Application of a systematic organ-system approach to common medical issues encountered in primary care. Focuses on the etiology, epidemiology, clinical presentation, patient assessment, laboratory and diagnostic studies, pathophysiology, and therapeutic interventions, and disease management specific to the following modules: Infectious Disease, Behavioral Medicine, Hematology and Oncology, Endocrinology, Otolaryngology, and Gastroenterology.
Prerequisites: BIOL 500, BIOL 500L, PHAS 501, PHAS 502, PHAS 510, PHAS 520, PHAS 520L, and PHAS 530.
Corequisites: PHAS 521 and PHAS 531.
Terms Typically Offered: Summer.

PHAS 512 Clinical Medicine II13 Credits
Continuation of the clinical medicine course series, with an organ-system approach to common medical issues encountered in primary care. Focus is on the etiology, epidemiology, clinical presentation, patient assessment, laboratory and diagnostic studies, pathophysiology, and therapeutic interventions, and disease management specific to the following modules: Dermatology, Cardiovascular, Pulmonary, Genitourinary, Neurology, and Geriatrics.
Prerequisites: PHAS 511, PHAS 521, and PHAS 531.
Corequisites: PHAS 503, PHAS 522, and PHAS 532.
Terms Typically Offered: Fall.

PHAS 513 Clinical Medicine III13 Credits
Continuation of the clinical medicine course series, systematic organ-system approach to common medical issues encountered in primary care. Focus is on the etiology, epidemiology, clinical presentation, patient assessment, laboratory and diagnostic studies, pathophysiology, and therapeutic interventions, and disease management specific to the following modules: Women’s Health, Orthopedics, Rheumatology, Pediatric populations, Surgery and Emergency Medicine.
Prerequisites: PHAS 503, PHAS 512, PHAS 522, and PHAS 532.
Corequisites: PHAS 523, PHAS 533, and PHAS 570.
Terms Typically Offered: Spring.

PHAS 520 History and Physical Exam2 Credits
Introduction to principles and skills of inspection, auscultation, percussion, palpation, and diagnostic equipment needed to complete an accurate and thorough exam. Foundational concepts of necessary skills to elicit both a comprehensive and problem specific medical history. Content focused on documenting normal adult exam findings builds the foundation for recognition of abnormal findings in the clinical medicine course series and clinical skills labs.
Corequisites: BIOL 500, BIOL 500L, PHAS 501, PHAS 502, PHAS 510, PHAS 520L, PHAS 530, and PHAS 541.
Terms Typically Offered: Spring.

PHAS 520L History and Physical Exam Lab1 Credit
Introduction to principles and skills of inspection, auscultation, percussion, palpation, and diagnostic equipment needed to complete an accurate and thorough exam. Foundational concepts of necessary skills to elicit both a comprehensive and problem specific medical history. Content focused on documenting normal adult exam findings builds the foundation for recognition of abnormal findings in the clinical medicine course series and clinical skills labs.
Corequisites: BIOL 500, BIOL 500L, PHAS 501, PHAS 502, PHAS 510, PHAS 520L, PHAS 530, and PHAS 541.
Terms Typically Offered: Summer.

PHAS 521 Patient Assessment, Diagnostics and Clinical Skills Lab I2 Credits
Application of skills necessary for eliciting a problem-focused patient history, diagnostic skills, and clinical procedures necessary for clinical practice. Focuses on the exam and procedural skills related to topics specific to Infectious Disease, Behavioral Medicine, Hematology and Oncology, Endocrinology, Otolaryngology, and Gastroenterology.
Prerequisites: BIOL 500, BIOL 500L, PHAS 501, PHAS 502, PHAS 510, PHAS 520, PHAS 520L, and PHAS 530.
Corequisites: PHAS 511 and PHAS 531.
Terms Typically Offered: Summer.
PHAS 522 Patient Assessment, Diagnostics and Clinical Skills Lab II2 Credits
Continuation of skills necessary for eliciting a problem focused patient history, diagnostic skills, and clinical procedures necessary for clinical practice. Focuses on the exam and procedural skills related to topics specific to Dermatology, Cardiovascular, Pulmonary, Genitourinary, Neurology, and Geriatrics.
Prerequisites: PHAS 511, PHAS 521, and PHAS 531.
Corequisites: PHAS 503, PHAS 512, and PHAS 532.
Terms Typically Offered: Fall.

PHAS 523 Patient Assessment, Diagnostics and Clinical Skills Lab III2 Credits
Continuation of patient assessment and diagnostic skills, focusing on the exam and procedural skills related to topics specific to Pediatric Populations, Women’s Health, Orthopedics, Rheumatology, Surgery, and Emergency Medicine.
Prerequisites: PHAS 503, PHAS 512, PHAS 522, and PHAS 532.
Corequisites: PHAS 513, PHAS 533, and PHAS 570.
Terms Typically Offered: Spring.

PHAS 530 Introduction to Research and Evidence-Based Medicine2 Credits
Introduction to critically evaluating the medical literature and applying these principles to patient-centered care. Emphasis on research design, biostatistics, searching and evaluating medical literature, and application of evidence into the medical practice setting to improve patient-centered care.
Corequisites: BIOL 500, BIOL 500L, PHAS 501, PHAS 502, PHAS 510, PHAS 520, PHAS 520L, and PHAS 541.
Terms Typically Offered: Spring.

PHAS 531 Clinical Reasoning II2 Credits
Development of clinical problem-solving and decision-making skills introduced in PHAS 530. Application of critical reasoning skills in case-based, small group collaboration to cover clinical medicine topics related to acute care. Emphasis on developing a differential diagnosis, patient assessment, treatment plans, and effective communication. Focus on skills of case presentations, utilizing point-of-care evidence, medical documentation, and informed consent.
Corequisites: PHAS 511 and PHAS 521.
Terms Typically Offered: Summer.

PHAS 532 Clinical Reasoning III2 Credits
Continuation of clinical problem-solving and decision-making skills introduced in PHAS 531. Application of critical reasoning skills in case-based, small group collaboration to cover clinical medicine topics related to longitudinal care. Emphasis on enhancing interpersonal skills and application of evidence-based resources. Focus on the Physician Assistant professional role in team-based care.
Prerequisites: PHAS 511, PHAS 521, and PHAS 531.
Corequisites: PHAS 503, PHAS 512, and PHAS 532.
Terms Typically Offered: Fall.

PHAS 533 Clinical Reasoning III2 Credits
Continuation of problem-solving and decision-making skill development as part of the clinical reasoning series. Application of critical reasoning skills in case-based, small group collaboration to cover clinical medicine topics related to emergent and urgent care. Emphasis on the management of the medically complex patient, focusing on referrals, supporting clinical rationale, interprofessional teams, and scope of practice.
Prerequisites: PHAS 503, PHAS 512, PHAS 522, and PHAS 532.
Corequisites: PHAS 513, PHAS 523, and PHAS 570.
Terms Typically Offered: Spring.

PHAS 541 PA Professionalism I2 Credits
Focus on the integrative principles of professionalism, team-based patient-centered care, medical ethics, Physician Assistant practice issues, history of the profession, community service and the business of health care delivery. Explore racial, ethnic, and socioeconomic health disparities and their impact on health outcomes and health systems.
Prerequisites: admission to the MPAS program.
Terms Typically Offered: Spring.

PHAS 542 PA Professionalism I2 Credits
Continuation of the integrative principles of professionalism, practice issues and the business of health care delivery. Explore billing and coding, medical liability, quality improvement, error prevention and patient safety. Focus on professional organizations and the process of licensure, certification, credentialing, and contracts. Varying healthcare delivery systems and health policy will be explored.
Prerequisites: PHAS 513, PHAS 523, PHAS 533, and PHAS 570.
Terms Typically Offered: Summer.

PHAS 543 PA Professional Capstone1 Credit
Synthesis of knowledge and skills in a scholarly project with direct application to quality improvement, health promotion, or community-based care. A written scholarly research paper is completed and a presentation is given relating findings to clinical practice.
Prerequisites: PHAS 542.
Terms Typically Offered: Fall.

PHAS 570 Clinical Year Seminar1 Credit
Focus on readiness for supervised clinical practice experiences. Clinical knowledge and skills, critical thinking, and professionalism are evaluated. Explore program policies, student self-care, coping with illness, injury and stress, electronic medical records, integrity, work ethic and professional expectations.
Prerequisites: PHAS 503, PHAS 512, PHAS 522, and PHAS 532.
Corequisites: PHAS 513, PHAS 523, and PHAS 533.
Terms Typically Offered: Spring.

PHAS 571 Family Medicine Rotation4 Credits
Emphasis on the pathophysiology, diagnosis, and management of systemic disease and conditions unique to the clinical practice of primary care. Clinical preceptors supervise student participation in patient care, skill development, and growing medical knowledge, emphasizing care of patients of all ages.
Prerequisites: PHAS 513, PHAS 523, PHAS 533, and PHAS 570.
Terms Typically Offered: Fall, Spring, Summer.
PHAS 572 Behavioral Medicine and Mental Health Rotation 2 Credits
Emphasis on the pathophysiology, diagnosis, and management of systemic disease and conditions of mental health disorders. Clinical preceptors supervise student participation in patient care, skill development, and growing medical knowledge in the discipline specific principles inherent in patient care in a mental health setting.
Prerequisites: PHAS 513, PHAS 523, PHAS 533, and PHAS 570.
Terms Typically Offered: Fall, Spring, Summer.

PHAS 573 Internal Medicine Rotation 4 Credits
Emphasis on the pathophysiology, diagnosis, and management of systemic disease and conditions unique to the longitudinal care of patients with chronic health problems. Clinical preceptors supervise student participation in patient care, skill development, and growing medical knowledge, with exposure to geriatric populations and healthy aging.
Prerequisites: PHAS 513, PHAS 523, PHAS 533, and PHAS 570.
Terms Typically Offered: Fall, Spring, Summer.

PHAS 574 Women's Health Rotation 2 Credits
Emphasis on the pathophysiology, diagnosis, and management of systemic disease in a women's health setting. Clinical preceptors supervise student participation in patient care, skill development, and growing medical knowledge in obstetrical, gynecologic, and women's preventive care.
Prerequisites: PHAS 513, PHAS 523, PHAS 533, and PHAS 570.
Terms Typically Offered: Fall, Spring, Summer.

PHAS 575 Pediatric Medicine Rotation 2 Credits
Emphasis on the pathophysiology, diagnosis, and management of systemic disease and conditions unique to pediatric clinical practice. Clinical preceptors supervise student participation in patient care, skill development, and growing medical knowledge specific to care for the pediatric patient.
Prerequisites: PHAS 513, PHAS 523, PHAS 533, and PHAS 570.
Terms Typically Offered: Fall, Spring, Summer.

PHAS 576 Surgery Rotation 4 Credits
Emphasis on evaluation and care of patients with commonly encountered conditions requiring surgical management. Clinical preceptors supervise student participation in patient care, skill development, and growing medical knowledge specific to the provision of care in the surgical setting.
Prerequisites: PHAS 513, PHAS 523, PHAS 533, and PHAS 570.
Terms Typically Offered: Fall, Spring, Summer.

PHAS 577 Emergency Medicine Rotation 4 Credits
Emphasis on the pathophysiology, diagnosis, and management of disease and conditions in the emergency department setting. Clinical preceptors supervise student participation in patient care, skill development, and growing medical knowledge of emergent medical conditions in the emergency department.
Prerequisites: PHAS 513, PHAS 523, PHAS 533, and PHAS 570.
Terms Typically Offered: Fall, Spring, Summer.

PHAS 578 Inpatient Medicine Rotation 4 Credits
Emphasis on the pathophysiology, diagnosis, and management of systemic disease and conditions unique to providing care in an inpatient setting. Clinical preceptors supervise student participation in patient care, skill development, and growing medical knowledge specific to medical or surgical inpatient care.
Prerequisites: PHAS 513, PHAS 523, PHAS 533, and PHAS 570.
Terms Typically Offered: Fall, Spring, Summer.

PHAS 579 Elective Rotation I 4 Credits
Emphasis on the pathophysiology, diagnosis, and management of systemic disease and conditions unique to the clinical practice of student's selected area of interest. Clinical preceptors supervise student participation in patient care, skill development, and growing medical knowledge in student's selected clinical rotation.
Prerequisites: PHAS 513, PHAS 523, PHAS 533, and PHAS 570.
Terms Typically Offered: Fall, Spring, Summer.

PHAS 580 Elective Rotation II 4 Credits
Emphasis on the pathophysiology, diagnosis, and management of systemic disease and conditions unique to the clinical practice of student's selected area of interest. Clinical preceptors supervise student participation in patient care, skill development, and growing medical knowledge in student's selected clinical rotation.
Prerequisites: PHAS 513, PHAS 523, PHAS 533, and PHAS 570.
Terms Typically Offered: Fall, Spring, Summer.

PHAS 581 Summative Seminar 1 Credit
Summative evaluation for student demonstration of the knowledge, clinical skills, and professional competencies necessary to practice as an entry-level physician assistant. Preparation for the Physician Assistant National Certifying Exam (PANCE) is discussed.
Prerequisites: PHAS 513, PHAS 523, PHAS 533, and PHAS 570.
Terms Typically Offered: Spring.

PHAS 595 Independent Study 1-3 Credits
Independent study if student needs additional instruction in a core content area.
Terms Typically Offered: Fall, Spring, Summer.
PHYSICS (PHYS)

PHYS 100 Concepts of Physics-GTSC23 Credits
Introduction to physics. Emphasis on basic conceptual aspects described in everyday language. Elementary mathematics introduced when necessary. Survey of topics such as Newtonian mechanics, heat and energy, electricity and magnetism, light, relativity and quantum theory. The course is designed for majors outside of the sciences.

Essential Learning Categories: Natural Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

PHYS 101 Elementary Astronomy-GTSC23 Credits
Introduction to astronomy. Survey of topics such as observational astronomy, the solar system, stellar astronomy, galaxies and cosmology. Emphasis on basic conceptual aspects of astronomy. Minimal use of elementary mathematics such as basic arithmetic, fractions, square roots and powers. The course is designed for students in all majors.

Essential Learning Categories: Natural Sciences
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

PHYS 105 Physics by Inquiry-GTSC12 Credits
Laboratory-based introduction to physics and the physical sciences. Starting from their own observations, students develop basic physical concepts, use and interpret different forms of scientific representations, and construct explanatory models with predictive capabilities. Topics include properties of matter, heat and temperature, magnets, electric circuits, motion, and astronomy. Recommended for prospective K-12 teachers.

Corequisites: PHYS 105L.
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

PHYS 105L Physics by Inquiry Laboratory-GTSC11 Credit
Lab component required for PHYS 105.

Corequisites: PHYS 105.
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

PHYS 111 General Physics-GTSC14 Credits
Algebra-based introduction to classical electromagnetism, optics and modern physics. Detailed coverage of electrostatics, electric circuits, magnetism, electromagnetic waves, geometrical optics and wave optics. Topics from modern and atomic physics. Extensive use of algebra and trigonometry.

Prerequisites: PHYS 111/PHYS 111L, or PHYS 131/PHYS 131L, with a grade of C or higher.
Corequisites: PHYS 112L.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

PHYS 112 General Physics Laboratory-GTSC11 Credit
Lab component required for PHYS 112.

Prerequisites: PHYS 111/PHYS 111L, or PHYS 131/PHYS 131L, with a grade of C or higher.
Corequisites: PHYS 112.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

PHYS 131 Fundamental Mechanics-GTSC14 Credits
Calculus-based introduction to classical mechanics. Detailed coverage of the kinematics and dynamics of linear and rotational motion using Newton's Laws, momentum and energy conservation. The mathematics of calculus and vectors is used throughout. For majors in the sciences and engineering.

Prerequisites: MATH 151 or MATH 135 (either may be taken concurrently).
Corequisites: PHYS 131L.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

PHYS 131L Fundamental Mechanics Laboratory-GTSC11 Credit
Lab component required for PHYS 131.

Prerequisites: MATH 151 or MATH 135 (either may be taken concurrently).
Corequisites: PHYS 131.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

PHYS 132 Electromagnetism and Optics-GTSC14 Credits
Calculus-based introduction to classical electromagnetism and optics. Detailed coverage of electrostatics, electric circuits, magnetism, electromagnetic waves, geometrical optics and wave optics. The mathematics of calculus and vectors is used throughout. For majors in the sciences and engineering. Requires a mastery of the foundations of classical mechanics as covered in PHYS 131.

Prerequisites: PHYS 131/PHYS 131L, and MATH 152 or MATH 136 (either may be taken concurrently). A grade of C or higher in PHYS 131/PHYS 131L is required.
Corequisites: PHYS 132L.

Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

PHYS 111L General Physics Laboratory-GTSC11 Credit
Lab component required for PHYS 111.

Corequisites: PHYS 111.
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
PHYS 132L Electromagnetism and Optics Laboratory-GTSC11 Credit
Lab component required for PHYS 132.
Prerequisites: PHYS 131/PHYS 131L, and MATH 152 or MATH 136 (either may be taken concurrently). A grade of C or higher in PHYS 131/PHYS 131L is required.
Corequisites: PHYS 132.
Essential Learning Categories: Natural Science with lab - Both the lab and lecture must be completed
Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum
PHYS 196 Topics 1-3 Credits
Course may be taken multiple times up to a maximum of 15 credit hours.
PHYS 230 Intermediate Dynamics 3 Credits
Intermediate treatment of the dynamics of physical systems not covered in Fundamental Mechanics sequence. Includes fluid dynamics, classical waves and vibrations, thermodynamics, and relativistic kinematics and dynamics.
Prerequisites: PHYS 132, PHYS 132L, and MATH 253 (may be taken concurrently).
PHYS 231 Modern Physics 3 Credits
Quantum theory in the examination of blackbody radiation, the photoelectric effect, and energy quantization of atoms. The Schrodinger wave equation used to analyze simple quantum systems. Applications drawn from atomic and molecular physics, solid-state physics, nuclear and high-energy physics, and astrophysics.
Prerequisites: PHYS 132, PHYS 132L, and MATH 253 (may be taken concurrently).
PHYS 251 Electronics for Scientists 3 Credits
This laboratory-based course is an introduction to electric circuits and electronic instrumentation for scientists. The course will emphasize a practical approach, with students learning about electronic devices and how they work by building working circuits. Topics explored include passive circuits with resistors and capacitors, including applications in electric filtering; diodes; transistors; op-amps; timing circuits; feedback and amplification; and digital circuits.
Prerequisites: PHYS 132 or PHYS 112.
PHYS 252 Intermediate Laboratory 2 Credits
Students will perform experiments in optics, acoustics, and modern physics. Experiments will include measuring the speed of light, measuring the wavelength of atomic discharge lines, X-ray diffraction, and measuring h/e among others. Emphasis will be on experimental design, use of modern instrumentation, preparation of lab reports, and data analysis.
Prerequisites: PHYS 231 (may be taken concurrently).
PHYS 296 Topics 1-3 Credits
Course may be taken multiple times up to a maximum of 15 credit hours.
PHYS 300 New Directions in Science 3 Credits
A survey of recent developments in science. This course is open to qualified students in liberal arts as well as the sciences. Faculty from various disciplines will participate. Topics will be drawn from astronomy, biology, chemistry, geology, physics, engineering, and applied mathematics.
Prerequisites: Permission of instructor required.
PHYS 301 Introduction to Space Science 3 Credits
The history and technology of space and space exploration. Designed for all non-science majors, particularly prospective K-12 teachers. Topics include: the solar system, space environments, space travel, satellite communication and design.
Prerequisites: Junior or senior status, or permission of instructor.
PHYS 311 Electromagnetic Theory I 3 Credits
A mature study of electromagnetic fields. Electrostatics and magnetostatics presented. Special techniques, including multipole expansion of fields, analyzed. Electrodynamics introduced leading to Maxwell’s equations.
Prerequisites: PHYS 132/PHYS 132L, and MATH 260 or MATH 236.
PHYS 312 Electromagnetic Theory II 3 Credits
A continuation of PHYS 311. Electromagnetic waves were studied. Wave propagation in conducting and nonconducting media is examined, along with dispersion phenomena. Waveguides are examined. Electromagnetic field radiation is studied, both for point charges and for arbitrary charge distributions. The course concludes with a reformulation of electromagnetism in the language of special relativity.
Prerequisites: PHYS 311.
PHYS 321 Quantum Theory I 3 Credits
Quantum physics foundation. Includes quantum states, measurements, and time evolution using Dirac formalism for discrete and continuous systems. Connection between Dirac formalism and wave mechanics established and Schrodinger equation solved in various context. Includes particles in piecewise square potentials, tunneling, the harmonic oscillator, angular momentum, and the hydrogen atom. Introduces linear algebra for describing quantum physics and uses techniques for solving differential equations.
Prerequisites: PHYS 231, and MATH 260 or MATH 236.
PHYS 331 Advanced Laboratory I 2 Credits
A course in experiment design and technique. Laboratory investigations provide experience in instrumental methods, planning of laboratory experiments, data analysis, preparation of reports according to professional standards, and training in the use of computers for data acquisition and processing. The experiments to be performed are selected from electromagnetism, atomic, nuclear, and solid-state physics.
Prerequisites: PHYS 252.
PHYS 342 Advanced Dynamics 3 Credits
In-depth survey of classical mechanics, includes advanced treatment of Newtonian dynamics, conservation laws, gravitation, and the Lagrangian and Hamiltonian formulations of dynamics. Topics may include central force motion, systems of particles, non-inertial reference frames, rigid bodies, oscillating systems, couple oscillations, and waves on a string.
Prerequisites: PHYS 230, and MATH 260 or MATH 236.
PHYS 352 History and Philosophy of Physics 3 Credits
Material varies from year-to-year. The course addresses problems in the interpretation and development of physics. Case studies of crucial experiments are analyzed. The interaction of physics with other philosophical and cultural pursuits is discussed.
Prerequisites: One year of physics or permission of instructor.
PHYS 362 Statistical and Thermal Physics 3 Credits
Study of the physics of bulk matter. Fundamental principles of quantum mechanics, statistical methods employed to explain macroscopic laws of thermodynamics to make detailed predictions about the large-scale behavior of solids, liquids, and gases. Applications: specific heat of solids, thermal radiation, magnetic susceptibilities, stellar equilibrium, and chemical reactions.
Prerequisites: PHYS 230 or CHEM 321; and MATH 236 or MATH 260.
PHYS 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

PHYS 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

PHYS 422 Quantum Theory II 3 Credits
Continuation of PHYS 321. Central forces, complete derivation of hydrogen atom energy levels and eigenstates. Perturbation theory and other approximately techniques. Other selected topics include: multiple quantum systems, scattering, quantum foundations. 
Prerequisites: PHYS 321.

PHYS 432 Nuclear and High-Energy Physics 3 Credits
An introduction to the structure and interactions of nuclear and subnuclear particles. Topics include a survey of the intrinsic properties of nuclei, descriptions of various nuclear models, studies of radioactivity and nuclear reactions, and an overview of the technologies of high-energy accelerators and detectors. The course concludes with an introduction to the properties and structures of elementary particles and discussions of current developments in unified theories of force. 
Prerequisites: PHYS 322.

PHYS 441 Solid State Physics 3 Credits
The structure and properties of solids. This course is a study of the crystalline state of matter, including crystal classifications, vibrational specific heats, electronic structures and conductivities, cohesive energies, magnetic susceptibility, and optical properties. 
Prerequisites: PHYS 321.

PHYS 471 Computational Physics I 3 Credits
Foundation covering application of computational techniques to solving physical problems. Numerical integration, differentiation, and matrix methods covered. Techniques of solving various regular and partial differential equations studied. Application of discretizing numerical solutions for physical problem stressed. Turning analytic problems into solvable computational schemes. Data analysis and visualization covered. Familiarity with any programming language is required. For any Science, Engineering or Mathematics major. 
Prerequisites: MATH 260 or MATH 236.

PHYS 472 Computational Physics II 3 Credits
A continuation of PHYS 471. Advanced topics in solving partial differential equations and simulating physical systems using modern parallel computing covered. MPI, Open MP, and their applications to physical phenomenon on Linux workstations covered. Introduction to translating analytical problems to parallel computational problems 
Prerequisites: PHYS 471.

PHYS 473 Modern Optics 3 Credits
Modern principles and applications of optics. Optical models including ray and wave optics presented. Laws of reflection and refraction studied within the context of both ray and wave optics. Reflectivity and transmissivity analyzed. Superposition and wave interference discussed. Diffraction theory used in a number of applications. Concludes with an introduction to lasers and quantum optics. 
Prerequisites: PHYS 311.

PHYS 482 Senior Research 1 Credit
An individual research project, supervised by a faculty advisor. The project may be selected from experimental or theoretical topics. The research concludes with a formal report written in accordance with The American Institute of Physics Style Manual. This course is normally taken twice in the senior year. Course may be taken 2 times for credit.

PHYS 487 Structured Research 1-3 Credits
Physics research under the direct guidance of a faculty member. Designed for advanced junior and senior level students. 
Prerequisites: Permission of instructor.

PHYS 494 Physics Seminar 1 Credit
A forum for topical physics. In this seminar, faculty and students of physics participate in both informal discussions and formal oral presentations of selected topics of scientific interest, including significant current advances and crucial historical developments. The course may be repeated for a maximum of four semester hours of credit. 
Prerequisites: Upper division standing and permission of instructor. Course may be taken 10 times for credit.

PHYS 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

PHYS 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

PHYS 596 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
POLITICAL SCIENCE (POLS)

POLS 101 American Government-GTSS13 Credits
Structures and functions of the American political system and the constitutional development of federalism and separation of powers. Also, citizen participation and influence in politics, the congress, presidency and the supreme court, and public policy including civil rights and liberties.
Essential Learning Categories: Social and Behavioral Sciences

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

POLS 151 Introduction to Political Ideas3 Credits
Introduction to the major theories of human political organization and ideas that frame those approaches. Emphasis on theories of democracy, authoritarianism, liberalism, conservatism and contemporary ideologies of liberation (feminism, environmentalism and race).
Essential Learning Categories: Social and Behavioral Sciences

POLS 196 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

POLS 201 Introduction to Political Inquiry3 Credits
Introduction to major tools of investigation in the study of politics. Examination of modern scientific research design and methods. Additional emphasis on discipline-specific skills in critical thinking, information literacy, writing and citation mechanics, and oral communication.

POLS 236 State and Local Government3 Credits
Theories of state formation and constitutional development, city charters, county government, and intergovernmental relations with emphasis on Colorado.

POLS 261 Comparative Politics-GTSS13 Credits
Introduction to conceptual models and approaches utilized in the comparative study of nations and their politics. Application of these theories to selected democratic, communist, and developing political systems.
Essential Learning Categories: Social and Behavioral Sciences

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

POLS 270 World Politics3 Credits
Introduction to structures, processes, and behaviors shaping world politics. Emphasis on states and their interactions as well as non-state actors and cultural, economic, and environmental forces shaping an emerging world community.
Essential Learning Categories: Social and Behavioral Sciences

POLS 324 The Legislative Process3 Credits
A study of the legislative process emphasizing the U.S. Congress. Attention will be given to the development of legislative systems, the operation of legislatures, the election of legislators, and a comparison with legislatures in other national states.
Prerequisites: POLS 101 or permission of instructor.

POLS 325 The American Presidency3 Credits
A study of the American chief executive, emphasizing the historical development of the office, the various functions of the modern chief executive and a brief comparison with the executive officer of other national states.

POL 328 The American Court System3 Credits
The American court system; local, state, and national, including consideration of the impact of prosecutors, defense personnel, judges, and other factors on court decisions and the criminal justice system.
Prerequisites: POLS 101 or CRMJ 201.

POLS 342 Public Administration3 Credits
Historical development of public administration including organizational structure and theory, management, personnel administration, fiscal administration, and administrative responsibility.

POLS 351 Public and Elite Political Behavior3 Credits
Behavior of elected officials and the public in American politics. Achievement of power and how actions are evaluated via public opinion and voting. Role of media in American politics explored.
Prerequisites: POLS 101.

POLS 352 Religion and Politics3 Credits
The interactions of religion and politics in the United States, several liberal democracies and within international relations.

POLS 353 Politics of Human and Natural Resources3 Credits
Study of politics and public policy surrounding natural resource allocation, preservation, development and consumption by human social systems. Emphasis on challenges of public policy formation and implementation in areas of land, water, energy, minerals, food and habitat at domestic and global levels.

POLS 354 Political Geography3 Credits
Exploration of ways in which physical landscapes shape political attitudes, ideas, and institutions. Emphasis on key concepts of place, mapping, borders, territory, nationalism, and ecological and social impact of natural settings.

POLS 356 Indigenous Politics3 Credits
Study of interactions between the state and various indigenous peoples around the world. Internal political structure and practice of selected indigenous groups and the role of indigenous nations in global politics.

POLS 366 Government and Politics of Asia3 Credits
Study of political systems of China, Japan, Korea, India, and Indonesia. Emphasizes political development, sources, processes, and evaluation of policy making, and contemporary challenges facing these countries.

POLS 372 Peace and Conflict Studies3 Credits
Interdisciplinary study of nature and causes of conflict, conflict resolution, and foundations of justice and peace. Analyzes historical and contemporary conflicts, both civil and international, and examines how evidence and theory are used to understand peace and conflict.

POLS 373 Global Politics of Women and Gender3 Credits
Analysis of women and gender in global security and the global political economy. Topics include violence and war, transnational activism, migration, development, human rights, sex work, and domestic work. Examines contemporary case studies, how evidence and theory are used to explain the gendered nature of global security and economic systems.

POLS 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

POLS 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

POLS 412 Constitutional Law3 Credits
An analysis of American constitutional theory as articulated by the U. S. Supreme Court. Specific topics include the nature of judicial review, the powers of the President and Congress, federalism, the regulation of commerce and the development of substantive due process.
Prerequisites: POLS 101 or permission of instructor.
POL 452 Political Theory: Classical and Medieval 3 Credits

POL 453 Political Theory: Modern 3 Credits
Overview of theory and practice of public policy making and implementation. Examination of participants and stages of public policy making. Analysis of success/failure of controversial public policies. Topics may include healthcare policy, drug policy and welfare.

POL 462 Public Policy: Theory and Practice 3 Credits
Analysis of management of world politics and economics by networks of states, international and regional organizations, and non-state participants. Includes human and environmental security, human rights, global health, organized crime, global political economy, and development. Examines successful and unsuccessful problem management in a globalized world.

POL 471 Politics of Global Governance 3 Credits
Analysis of management of world politics and economics by networks of states, international and regional organizations, and non-state participants. Includes human and environmental security, human rights, global health, organized crime, global political economy, and development. Examines successful and unsuccessful problem management in a globalized world.

Prerequisites: POL 270.

POL 472 International Political Economy 3 Credits
Analysis of origins, evolution, and trajectory of global political economy. Includes international regulation, trade, finance, and monetary systems, as well as development, foreign aid, migration, organized crime, and resource extraction. Explores theory and evidence used to explain global economic developments.

Prerequisites: POL 270.

POL 475 American Foreign and National Security Policy 3 Credits
American foreign and national security policy with emphasis on 1945 to the present and beyond. Foreign and domestic factors shaping policy, the mechanisms and dynamics of policy making, the role of perception and motives underlying decision and action, and case studies of historical crises and contemporary debates are examined.

Prerequisites: POL 270.

POL 482 International Relations Theory 3 Credits
Study of the major theoretical approaches to international relations and global politics. Special emphasis placed on foundational concepts such as the state, sovereignty, governance, borders, and emerging issues of identity, non-state participants, and human security.

Prerequisites: POL 270.

POL 488 Environmental Politics and Policy 3 Credits
An introduction to the political issues and problems associated with patterns of socio-economic growth and its environmental impact at both domestic and global levels of analysis.

POL 490 Senior Seminar for Political Science 3 Credits
Arranged tutorials and seminars with political science faculty and students, design and execution of a research project, and submission of a senior thesis.

Prerequisites: POL 201 and senior standing.

POL 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

POL 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
PROCESS TECHNOLOGY (PROS)

PROS 100 Introduction to Process Technology 3 Credits
Provides an overview or introduction into the field of Process Operations within the process industry. The course will introduce the roles and responsibilities of process technicians, the environment in which they work, and the equipment and systems in which they operate.

PROS 117 Electronics I 3 Credits
Fundamentals of practical and theoretical DC and AC circuits. Application of basic entry skills and analysis/verification of theoretical results. Introduces the basic skills required by many careers in electronics and related fields. Operations and applications of basic DC and AC circuits consisting of resistors, capacitors, inductors, transformers and diodes, and introducing basic digital concepts. Emphasis on common test instruments in troubleshooting, working on real-world and applicable projects. Lecture/lab format.

PROS 118 Electronics 2 3 Credits

Prerequisites: PROS 117.

PROS 120 Process Technology I: Equipment 4 Credits
Provides an overview or introduction into the field of equipment within the process industry. This course will introduce many process industry-related equipment concepts including purpose, components, operation, and the Process Technician's role for operating and troubleshooting the equipment.

PROS 195 Independent Study 1-4 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

PROS 196 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

PROS 220 Process Technology III: Operations 4 Credits
Provides an introduction to the field of operations within the process industry. Students will use existing knowledge of equipment, systems, and instrumentation to understand the operation of an entire unit. Students study concepts related to commissioning, normal startup, normal operations, normal shutdown, turnovers, and abnormal situations, as well as the Process Technician's role in performing the tasks associated with these concepts within an operating unit.

PROS 230 Quality in Process Technology 3 Credits
Provides an introduction to the field of Quality within the Process Industry. This course will introduce many process industry-related quality concepts including operating consistency, continuous improvement, plant economics, team skills and statistical process control (SPC).

PROS 290 Certification 1 Credit
Capstone certification preparation specifically addressing each emphasis and associated certifications. Addresses Certified Electronics Technician (CET) program and other certifications.

PROS 292 Capstone 4 Credits
Knowledge to articulate the tactical planning functions performed within field projects. Access and apply the various tactical planning tools and data elements to supporting documentation including troubleshooting. Economic principles in costing, value, capital investment, profitability and inventory.
PSYCHOLOGY (PSYC)

PSYC 150 General Psychology-GTSS3 Credits
Examines the fundamental principles of psychology.

Essential Learning Categories: Social and Behavioral Sciences

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

PSYC 201 Orientation to the Psychology Major3 Credits
Foundations for further study in psychology. Education and career planning. Basic information competence and writing skills, including APA writing format. Basic descriptive statistics, data reporting and graphic representation. Importance of research. Applying to graduate school.

Prerequisites: Declared psychology major, PSYC 150 and ENGL 112.

PSYC 202 APA Style of Writing for Psychology Minors1 Credit
APA writing format as foundation for further study in the psychology minor. Not intended for psychology majors.

Prerequisites: PSYC 150, ENGL 112, and declared minor in psychology.

PSYC 216 Research Methods in Psychology3 Credits
Designing, conducting, and reporting psychological investigations. Experimental, non-experimental, and quasi-experimental methods examined. Research project and presentation of results in APA style.

Prerequisites: PSYC 150, STAT 215, and PSYC 201.
Corequisites: PSYC 216L.

PSYC 216L Research Methods in Psychology Laboratory1 Credit
Lab component required for PSYC 216.

Prerequisites: PSYC 150, STAT 215, and PSYC 201.
Corequisites: PSYC 216L.

PSYC 233 Human Growth and Development-GTSS3 Credits
Developmental principles, ages and stages of the life span, and adjustment techniques. Not intended for behavioral science majors.

Essential Learning Categories: Social and Behavioral Sciences

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

PSYC 296 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

PSYC 300 Health Psychology3 Credits
Health and psychology are intertwined in a variety of ways. This course examines what it means to be healthy and look at the connection between behavior and both physical health and illness and mental health and illness.

Prerequisites: PSYC 150 or PSYC 233.

PSYC 310 Child Psychology3 Credits
A study of the principles of human development and psychology from conception to puberty.

Prerequisites: PSYC 150.

PSYC 314 Psychology Of Learning3 Credits
Classic and modern explanations of the phenomena of learning in both lower animals and humans. Classical and operant conditioning covered in detail.

Prerequisites: Junior or senior status and PSYC 150.

PSYC 320 Social Psychology3 Credits
Social influences upon behavior with consideration given to topics such as: social perception, attitude formation and change, communication, and leadership.

Prerequisites: PSYC 150.

PSYC 330 Psychology of Adolescents and Emerging Adulthood3 Credits
Study of principles of human development (biological, cognitive, and social/emotional) from puberty through emerging adulthood.

Prerequisites: PSYC 150.

PSYC 335 Psychology of Women3 Credits
A brief account of the role of women in mythology and history will be followed by coverage of women's heritage in psychology. Then gender specific aspects of physical, psychological and social development will be covered. Current areas of interest will be included, e.g., communication, work related issues, relationships.

Prerequisites: PSYC 150.

PSYC 340 Abnormal Psychology3 Credits
Concepts related to psychopathology and personality disorders including functional causation, general psychological theory, and behavior deviation patterns.

Prerequisites: PSYC 150, or permission of instructor.

PSYC 350 Psychology Of Adulthood3 Credits
Study of principles of human development (biological, cognitive, and social/emotional) from the latter part of young adulthood through late adulthood.

Prerequisites: PSYC 150.

PSYC 370 Cross-Cultural Psychology3 Credits
Survey of theory and methods in cross-cultural psychology.

Prerequisites: PSYC 150.

PSYC 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

PSYC 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

PSYC 400 Psychological Testing3 Credits
Theory, problems, methods, and content of psychological measurement, including concepts of the purpose of testing, test administration and scoring, standardization, reliability, validity test evaluation, and a survey of the major tests used in educational and psychological testing.

Prerequisites: PSYC 150 and STAT 215.

PSYC 401 Sport Psychology3 Credits
Introduction to theories and research in Sport Psychology. Includes aggression and violence in sport, psychological characteristics of participants, sexual identity and motivation.

Prerequisites: PSYC 150.

PSYC 408 Foundations of School Counseling3 Credits
Examination of conceptual foundation of the counseling and school counseling professions including history, philosophy, principles and trends. Includes functions of counselors, administrators, teachers and parents in meeting students' needs in a K-12 education setting.

Prerequisites: PSYC 233 or PSYC 310.

Terms Typically Offered: Fall.

PSYC 410 Drugs and Human Behavior3 Credits
Study of pharmacological effects and behavioral consequences of self-administered depressants, stimulants, and euphoriants, of marijuana, alcohol and tobacco, and of medicines. Prevention of drug-related problems is considered briefly.

Prerequisites: Junior or senior standing.
PSYC 411 Human Sexuality3 Credits
Study of the biological, psychological, and social bases and manifestations of human sexual behavior. Includes theory, research and diversity in sexuality, the biology of sex, gender development, sexual diseases, deviancy and coercion.
Prerequisites: PSYC 150, STAT 215, and PSYC 216/PSYC 216L.

PSYC 412 Industrial and Organizational Psychology3 Credits
Psychological principles applied to formal, productive organizations such as businesses, governments, and schools. Personnel selection, placement, training, evaluation, motivation to work, job satisfaction, and morale are examined. Counts as a management course for BBA candidates.
Prerequisites: PSYC 150, or permission of instructor.

PSYC 414 History of Psychology3 Credits
Systems and theories of modern psychology and the development of scientific psychology since 1879.
Prerequisites: PSYC 150, and good standing as a junior or above psychology major or permission of instructor.

PSYC 416 Memory And Cognition3 Credits
Study of the mental processes that underlie our abilities to recognize stimuli, think, remember, learn language, and solve problems. Current research in each of these areas will be discussed. Includes a research paper written in APA style.
Prerequisites: PSYC 150.

PSYC 420 Personality3 Credits
Examination of personality psychology from the time of Freud through the present. Theories and various approaches to understanding the development and functioning of both the general and the unique in personality are emphasized.
Prerequisites: PSYC 216, recommend PSYC 400.

PSYC 422 Sensation and Perception3 Credits
Study of the human senses, especially vision and hearing, and of people's meaningful organization of sensory information.
Prerequisites: PSYC 150, or permission of instructor.

PSYC 425 Forensic Psychology3 Credits
Introduction to the production and application of psychological knowledge to the civil and criminal justice systems.
Prerequisites: Junior or senior standing.

PSYC 430 Biopsychology3 Credits
The biological bases of the behaviors of the organism, emphasizing the structure and function of the nervous system. The role of biological factors in such behaviors as sleep, sexual behavior, drug addiction, emotion, etc. will be examined.
Prerequisites: Junior or senior status, PSYC 150.

PSYC 435 Applied Social Psychology3 Credits
Survey of theories and research in social psychology. Advanced topics in social psychology through readings and discussion on historical and current perspectives. May include self, person perception, attitudes, attributions, close relationships, social influence, and group conflict.
Prerequisites: PSYC 150 and upper division standing.

PSYC 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

PSYC 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

PSYC 499 Internship1-12 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
PSYCHOLOGY - COUNSELING (PSYP)

PSYP 305 Suicide Intervention Training 1 Credit
Provides a clear and direct method to intervene with those at risk of suicide. Students learn to identify risk factors, develop safety plans, practice skills to intervene, and develop an understanding of resources available. This is a two day (16 hour) suicide intervention workshop.

PSYP 306 Applied Ethics in Mental Health and Counseling 1 Credit
Application of professional ethical principles and codes to mental health and health service settings.

PSYP 320 Career Development 3 Credits
Theories of, and factors influencing, career development such as assessment, career maturity, decision making, problem solving, and planning. Current developments in adult career and life development will be discussed including life stages, transitions, midlife crisis, stress, and adjustments necessary for career development effectiveness.
Prerequisites: PSYC 201 or permission of instructor.

PSYP 322 Multicultural Service Learning 3 Credits
Exploration of multiculturalism through ethnography and community service field work.
Prerequisites: PSYC 201.

PSYP 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

PSYP 410 Introduction to Marriage and Family Counseling 3 Credits
Key theories and approaches for diverse problem areas in Marriage and Family Counseling, including domestic violence and substance abuse. Explore career options and training for counselors.
Prerequisites: PSYC 150 or SOCO 144.

PSYP 420 Counseling Processes and Techniques 3 Credits
Counseling principles and practices which facilitate interpersonal communication and effective personal and social development. Counseling skills in attending behavior, listening, problem exploration, responding, understanding, and modes of action are examined, discussed and applied in classroom counseling situations.
Prerequisites: PSYP 320 and PSYC 340 or permission of instructor.

PSYP 422 Psychological Interviewing 3 Credits
Psychological interviewing techniques, methods, and interpretation will be examined using the DSM-V. Interview types will include counseling, intake, assessment, and diagnosis.
Prerequisites: PSYC 201, PSYC 340 and PSYC 400.

PSYP 424 Group Processes 3 Credits
Dynamics, procedures and processes of the group. Focus will be on understanding self and learning how to help others develop self-understanding as well as personal and social skill.
Prerequisites: PSYP 420.

PSYP 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

PSYP 497 Practicum I 4 Credits
Interpersonal training and counseling practice under professional supervision. A typed paper/journal must be submitted for approval and course credit.
Prerequisites: Senior status and permission of instructor. Practicum must be arranged for the semester prior to enrollment.

PSYP 499 Practicum II 4 Credits
Counseling experience in external field locations according to needs and career goals of the student. A typed paper/journal must be submitted for approval and course credit.
Prerequisites: Permission of instructor. Internship must be arranged for the semester prior to enrollment.
PUBLIC ADMINISTRATION
(PADM)

PADM 314 Public Organization Theory3 Credits
Examination of the historical development of organizational theory. Focuses on various theoretical approaches to the study of organizational structure and human behavior in public sector organizations.

PADM 315 Public Management3 Credits
Exploration of the concepts and skills essential to successful management in public organizations. Focuses on the management functions critical for success of the organization and how these functions are affected by operating in the public sector.

PADM 350 Ethics in Public Administration3 Credits
Philosophical and practical issues related to ethical decision making in the public sector. Emphasis on the analysis of ethical problems and the development of analytical skills and values framework to act ethically in public service roles.

PADM 396 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

PADM 442 Public Budgeting3 Credits
Examines the principles and practices of resource allocation and the role of the budget in policy development and implementation focusing primarily on state and local government. Focuses on the relationship of the budget to strategic planning, policy implementation and performance measures.

PADM 446 Public Personnel Management3 Credits
Examination of the major issues and components of public personnel systems. Special focus will be placed on the role of the first line government supervisor or middle manager in all facets of personnel administration.

PADM 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.
RADIOLOGIC SCIENCES (RADS)

RADS 320 Introduction to Radiologic Technology and Patient Care 
Introduction to radiologic technology with emphasis on the education program, the profession, and the healthcare delivery system.
Fundamentals of patient care including ethics, professional conduct, communication, radiation protection, and patient management. Study of medical terminology is included.
Prerequisites: Acceptance into the Radiologic Sciences program.
Corequisites: RADS 320L.

RADS 320L Introduction to Radiologic Technology and Patient Care Laboratory 
Lab component required for RADS 320.
Corequisites: RADS 320.

RADS 321 Radiographic Anatomy and Positioning I 
Exploration of every phase of radiography in an integrated coverage of the appendicular skeletal system, abdomen, thoracic, viscerum, and body systems. Radiographic anatomy, positioning, and procedures are discussed and applied in the energized laboratory.
Prerequisites: Acceptance into the Radiologic Sciences program.
Corequisites: RADS 321L.

RADS 321L Radiographic Anatomy and Positioning I Laboratory 
Lab component required for RADS 321.
Prerequisites: Acceptance into the Radiologic Sciences program.
Corequisites: RADS 321.

RADS 322 Principles of Radiographic Exposure 
Exploration of fundamental factors that govern and influence the radiographic image, including equipment, accessory devices, and exposure mathematics. Technical and prime exposure factors are discussed and applied in the energized laboratory.
Prerequisites: Acceptance into the Radiologic Sciences program.
Corequisites: RADS 322L.

RADS 322L Principles of Radiographic Exposure Laboratory 
Lab component required for RADS 322.
Prerequisites: Acceptance into the Radiologic Sciences program.
Corequisites: RADS 322.

RADS 323 Digital Imaging 
Exploration of components, principles, and operation of digital imaging systems found in diagnostic radiology. Factors affecting image acquisition, display, archiving, and retrieval are discussed.
Prerequisites: Acceptance into the Radiologic Sciences program.

RADS 329 Radiographic Clinical Experience I 
Introduction to the radiographic clinical education experience in the clinical education site. Designed to provide patient care and assessment, competent performance of radiologic imaging, and total quality management. Levels of competency and outcomes measurement ensure the well-being of the patient prior to, during, and following the radiologic procedure.
Prerequisites: Acceptance into the Radiologic Sciences program.

RADS 331 Radiographic Anatomy and Positioning II 
Continuation of RADS 321 with instruction in every phase of radiography of the spinal column, digestive system, urinary system, cranium, and facial bones. Radiographic anatomy, positioning, and procedures are discussed and applied in the energized laboratory.
Prerequisites: Acceptance into the Radiologic Sciences program.
Corequisites: RADS 331L.

RADS 331L Radiographic Anatomy and Positioning II Laboratory 
Lab component required for RADS 331.
Prerequisites: Acceptance into the Bachelor of Science in Radiologic Sciences program.
Corequisites: RADS 331.

RADS 332 Specialized Imaging 
Introduction to medical imaging modalities and treatment, including equipment, dose differences, types of radiation, patient preparations, indications, and contraindications. Educational and certification requirements are included. Mobile and trauma radiography also are discussed. The course includes an introduction to sectional anatomy of head/brain, chest, mediastinum, abdomen, pelvis, and musculoskeletal system.
Prerequisites: Acceptance into the Radiologic Sciences program.

RADS 333 Imaging Equipment and Quality Assurance 
Introduction to radiographic, fluoroscopic, and mobile equipment requirements and design. Applied practice of equipment maintenance, quality control, and testing performed in lab.
Prerequisites: Acceptance into the Radiologic Sciences program.
Corequisites: RADS 333L.

RADS 333L Imaging Equipment and Quality Assurance Laboratory 
Lab component required for RADS 333.
Prerequisites: Acceptance into the Radiologic Sciences program.
Corequisites: RADS 333.

RADS 334 Image Analysis 
Principles of analyzing radiographic images of the appendicular skeleton, chest, and abdomen. The importance of optimal imaging standards, as well as discussion of a problem-solving technique for image evaluation and the factors that can affect image quality are also addressed. Actual images will be included for analysis.
Prerequisites: Acceptance into the Radiologic Sciences program.

RADS 335 Radiation Biology and Protection 
Principles of radiation interaction in cells and factors affecting cell response to radiation. The course also addresses acute and chronic effects of radiation, dose equivalent limits, and regulatory involvement. Responsibility by the radiographer to patients, personnel, the public, and self are also discussed.
Prerequisites: Acceptance into the Radiologic Sciences program.

RADS 339 Radiographic Clinical Experience II 
Exploration of additional concepts correlating skills with academic courses in radiographic clinical education. Designed to provide patient care and assessment, competent performance of radiologic imaging, and total quality management. Levels of competency and outcomes measurement ensure the well-being of the patient prior to, during, and following the radiologic procedure.
Prerequisites: Acceptance into the Radiologic Sciences program.
### RADS 354 Image Analysis II 2 Credits
Principles of analyzing radiographic images of the axial skeleton (including the spine, sternum, ribs, and cranium), facial bones, paranasal sinuses and the digestive system. The importance of optimal imaging standards, as well as discussion of a problem-solving technique for image evaluation and the factors that can affect image quality are also addressed. Actual images will be included for analysis.  
**Prerequisites:** Acceptance into the Radiologic Sciences program.

### RADS 449 Radiographic Clinical Experience I 6 Credits
Further exploration of clinical education. Designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management. Levels of competency and outcomes measurement ensure the well-being of the patient prior to, during, and following the radiologic procedure.  
**Prerequisites:** Acceptance into the Radiologic Sciences program.

### RADS 451 Imaging Pathology 3 Credits
Introduction to concepts related to the disease process with emphasis on the radiographic appearance of disease.  
**Prerequisites:** Acceptance into the Radiologic Sciences program.

### RADS 452 Sectional Anatomy 3 Credits
Exploration of the location and identification of structures in multiple anatomical planes. Function, orientation, imaging, and pathology will be discussed.  
**Prerequisites:** Acceptance into the Radiologic Sciences program.

### RADS 453 Advanced Patient Care 3 Credits
Development of patient care knowledge and skills required for advanced medical imaging procedures. Focus is on legal and ethical considerations, drug administration, patient monitoring, emergency care, and sterile technique.  
**Prerequisites:** Acceptance into the Radiologic Sciences program.

### RADS 459 Radiographic Clinical Experience IV 5 Credits
Further exploration of clinical education. Designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management. Levels of competency and outcomes measurement ensure the well-being of the patient prior to, during, and following the radiologic procedure.  
**Prerequisites:** Acceptance into the Radiologic Sciences program.

### RADS 460 Principles of Magnetic Resonance Imaging 2 Credits
Introduction to the operation of a magnetic resonance imaging (MRI) scanner. Includes magnetic resonance imaging instrumentation, safety, physics, and contrast media. Does not include clinical experience.  
**Prerequisites:** Acceptance into the Bachelor of Applied Science program or Radiologic Sciences MRI Certificate Program; registered radiologic technologist with minimum associate degree.

### RADS 461 Principles of Computed Tomography 2 Credits
Introduction to the operation of computed tomography equipment. Includes instrumentation, image display, radiation safety, and contrast media. Does not include clinical experience.  
**Prerequisites:** Acceptance into the Radiologic Sciences program, or CT Certificate program.

### RADS 462 Leadership and Management 3 Credits
Identification of skills necessary to work within an effective interdisciplinary health care team. Includes principles of leadership, quality management, and health care law.  
**Prerequisites:** Acceptance into the Radiologic Sciences program.

### RADS 463 Information Literacy in Radiologic Sciences 3 Credits
Development of life-long learning skills necessary to function competently in the continually changing medical imaging environment. Content includes intellectual inquiry, information literacy, and scholarly research methods.  
**Prerequisites:** Acceptance into the Radiologic Sciences program.

### RADS 464 Senior Capstone 3 Credits
Synthesis of radiologic science concepts, principles, and procedures. Includes development of resume and interview skills.  
**Prerequisites:** Acceptance into the Radiologic Sciences program.

### RADS 469 Radiographic Clinical Experience V 3 Credits
Further exploration of clinical education. Designed to provide patient care and assessment, competent performance of radiologic imaging and total quality management. Levels of competency and outcomes measurement ensure the well-being of the patient prior to, during, and following the radiologic procedure.  
**Prerequisites:** Acceptance into the Radiologic Sciences program.

### RADS 470 Applied Magnetic Resonance Imaging 3 Credits
Continuation of RADS 460. Development of knowledge and cognitive skills underlying the intelligent performance of tasks typically required of technologists who perform magnetic resonance imaging procedures. Includes patient care, image production, procedures, artifacts, and quality control. Does not include clinical experience.  
**Prerequisites:** RADS 460.

### RADS 471 Applied Computed Tomography 3 Credits
Continuation of RADS 461. Development of knowledge and cognitive skills underlying the intelligent performance of tasks typically required of technologists who perform computed tomography procedures. Includes patient care and safety, imaging procedures, and image assessment. Does not include clinical experience.  
**Prerequisites:** RADS 461.

### RADS 472 Principles of Analyzing Radiographic Images 2 Credits
Development of the ability to analyze radiographic images. Includes the ability to compare and contrast images, and to apply principles of anatomy and physiology to the interpretation of radiographic images.  
**Prerequisites:** RADS 460 or RADS 461 (may be taken concurrently).

### RADS 473 Information Literacy in Radiologic Sciences 3 Credits
Development of life-long learning skills necessary to function competently in the continually changing medical imaging environment. Content includes intellectual inquiry, information literacy, and scholarly research methods.  
**Prerequisites:** Acceptance into the Radiologic Sciences program.

### RADS 474 Clinical Specialization I 4 Credits
Continuation of RADS 480. Demonstration of clinical competency in Radiologic Science imaging modality. Practical experience gained and demonstrations of competency in positioning, machine control, patient care and image quality in chosen modality.  
**Prerequisites:** RADS 460 or RADS 461 (may be taken concurrently).

### RADS 475 Clinical Specialization II 4 Credits
Continuation of RADS 490. Demonstration of clinical competency in Radiologic Science imaging modality. Practical experience gained and demonstrations of competency in positioning, machine control, patient care and image quality in chosen modality.  
**Prerequisites:** RADS 470 or RADS 471 (may be taken concurrently); and RADS 480.

### RADS 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.
READING (READ)

READ 092 College Reading Studio 1 Credit
This course is designed to offer supplemental support for students in reading intensive courses across the disciplines. Daily mini-lessons will be provided based on Ten Steps to Advanced College Reading Skills, and will follow with individual assistance with discipline-specific vocabulary from college texts. This is a corequisite with social science 100 discipline strands for students with Accuplacer scores of 62-79. Course may be taken 3 times for credit.

READ 096 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
SOCIAL SCIENCE (SOCI)

SOCI 101 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies 3 Credits
Introduction to lesbian, gay, bisexual, and transgender studies. Exploration of LGBT studies as an academic field and consideration of the experience of being lesbian, gay, bisexual or transgender.

Essential Learning Categories: Social and Behavioral Sciences

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

SOCI 120 Technology and Society-GTSS33 Credits
Overview of technological innovations and human societies throughout modern history. Emphasizes impacts of technology within a social, political, economic, and environmental context.

Essential Learning Categories: Social and Behavioral Sciences

Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

SOCI 196 Topics 1-6 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

SOCI 270 Introduction to Pre-Law Studies 2 Credits
Exploration of the path to law school. Dispels the myths about the practice of law and law school acceptance. Understanding of skills needed to succeed in law school. Career outlook and resources available to applicants. Open to all majors.

SOCI 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

SOCI 390 GRE Preparation 1 Credit
Introduction to the GRE, including the verbal, quantitative, and writing sections. Includes study tips, practice questions, and critical reading and writing techniques for students to improve their performance on the exam.

SOCI 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

SOCI 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

SOCI 397 Structured Research 1-3 Credits
Social or behavioral science research under the directed guidance of a faculty member. Designed for junior and senior level students. Course may be taken multiple times up to maximum of 9 credit hours.

SOCI 497 Structured Research 1-3 Credits
Social or behavioral science research under the directed guidance of a faculty member. Designed for junior and senior level students. Course may be taken multiple times up to maximum of 15 credit hours.

SOCI 499 Internship 1-6 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
SOCK WORK (SOWK)

SOWK 150 Introduction to Social Work3 Credits
Introduction to the profession of social work and its historical development; overview of the knowledge, values, skills, practice settings and groups served by social workers.

SOWK 210 Social Work for Diverse Populations3 Credits
Knowledge and skills necessary for social work practice with diverse populations. Explores issues of stereotypes, prejudice, discrimination and oppression. Examines cultural diversity in U.S. society and how to increase self-awareness related to worldviews and beliefs about diversity issues. Emphasis on empowerment of individuals and groups and on multicultural competence.

SOWK 296 Topics:1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

SOWK 308 Medical Social Work3 Credits
Explores interface of social work and patients' rights, medical decision-making, case management, process of diagnosis and treatment, palliative and end-of-life care, and the concept of health care consumer. Focus on the current health care system in the United State, the interface of health and end-of-life care, and the concept of health care consumer. Focus on ethical issues common to the social work profession and on the NASW Code of Ethics. Utilize code of ethics as guide to decision making. Explore relationship between professional ethical issues and the development of social policy.

Prerequisites: SOWK 150.

SOWK 311 Ethical Issues in Social Work3 Credits
Analysis of specific ethical dilemmas from personal, professional and policy perspectives. Focus on ethical issues common to the social work profession and on the NASW Code of Ethics. Utilize code of ethics as guide to decision making. Explore relationship between professional ethical issues and the development of social policy.

Prerequisites: SOWK 150 and SOWK 210.

SOWK 320 Social Work Practices in Mental Health3 Credits
Practice models and methods of intervention for effective social work practice in mental health care. Includes the promotion of mental health, the prevention of mental illnesses, and delivery of psychosocial treatment and rehabilitation services.

Prerequisites: SOWK 150, SOWK 210, SOWK 311, and SOWK 365.

SOWK 344 School Social Work3 Credits
Overview of social work practice in an educational setting. Cooperative work with school personnel in the identification, prevention and treatment of social, emotional and behavioral problems of children and intervention techniques with parents.

Prerequisites: SOWK 150.

SOWK 350 Legal Aspects of Social Work3 Credits
Exploration of the roles of the social worker in the legal field. Legal terms, procedures, state and federal court systems studied. The legal aspects of protective services for children and adults, the child support laws and the juvenile justice system examined.

Prerequisites: SOWK 150.

SOWK 365 Social Work Intervention Methods I3 Credits
Knowledge, values, and skills for multilevel (micro, mezzo, macro) general practices. Focuses on engaging clients in the helping process, interviewing skills, assessment tools, social histories, goal writing, termination and evaluation. Addresses professional ethics and values and applying systems and ecological frameworks to practice situations. Examines strengths-based assessments, the phases of the helping relationship, and the dynamics of change in interpersonal helping relationships, within a framework of social justice and diversity.

Prerequisites: SOWK 150, SOWK 210, and SOWK 320. This course is only open to social work majors who have been formally accepted into the BSW program.

SOWK 375 Social Work Intervention Methods II3 Credits
Examines generalist social work roles and techniques in group work practice. Building on interviewing and engagement skills presented in Intervention Methods I. Focuses on assessment, planning, and intervention with treatment and task groups. Emphasizes basic theory about groups and group process, demonstrates skills necessary for effective practice, explores leadership, group cohesion, and group dynamics. Uses of task and treatment groups in a broad range of settings with diverse client groups.

Prerequisites: SOWK 150, SOWK 210, SOWK 320, and SOWK 365. This course is only open to social work majors who have been formally accepted into the BSW program.

SOWK 377 Spirituality and Social Work3 Credits
Overview of the knowledge, values, and skills to provide spiritually sensitive social work practice. Prepare generalist social work practitioners to work with clients and their families from a holistic framework (bio, psycho, social, cultural, spiritual) and with diversity and respect. Use of interview techniques, spirituality assessments, and strengths-based approaches.

Prerequisites: SOWK 150.

SOWK 381 Gerontology and Social Work3 Credits
Overview of health aspects of aging in the United States. Explores theories of aging, social and health issues, family and caregiving dynamics, and end of life concerns. Prepares generalist social work practitioners to work with older clients and their families and with service delivery systems addressing the needs of this population.

Prerequisites: SOWK 150.

SOWK 385 SW Intervention Methods III3 Credits
Emphasizes study of skills from a problem-solving strengths and empowerment perspective with organizations and community systems. Viewed as an integral component of a model for bringing about social change, especially at the mezzo and macro levels. Attention paid to developing processes of building constituencies, mobilizing resources, networking, political participation, leadership development, and grassroots development. Introductory overview of strategies, tactics, and techniques of social change. Explores basic skills necessary to write effective grant proposals.

Prerequisites: SOWK 150, SOWK 210, SOWK 311, SOWK 320, SOWK 365, SOWK 375, and SOWK 387. This course is only open to social work majors who have been formally accepted into the BSW program.
SOWK 387 Social Work Research Methods 3 Credits
Provides an overview of the principles and methods of basic social work research. Explores qualitative and quantitative research methods and how to critically consume research studies and use research findings to strengthen social work practice. Explore how quality research can assist in making important decisions about the design and implementation of projects, programs, and policies that address the social needs of diverse groups. Create research instruments for numerous purposes (e.g. intake, assessment, client satisfaction, facilitating group services, etc.)
**Prerequisites:** SOWK 150, SOWK 210, SOWK 311, and SOWK 365. This course is only open to social work majors who have been formally accepted into the BSW program.

SOWK 394 Social Work Practicum Seminar I 1 Credit
Discussion of practicum-related issues, professional development, and exploration of learning objectives in field practicum experiences. Requires regular reporting of field activities.
**Prerequisites:** SOWK 150, SOWK 210, SOWK 320, SOWK 365, SOWK 375, SOWK 385, and SOWK 387. This course is only open to social work majors who have been formally accepted into the BSW program.
**Corequisites:** SOWK 397.

SOWK 396 Topics: 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

SOWK 397 Social Work Practicum I 5 Credits
Involves 225 clock hours per semester. Opportunities to apply theories, techniques, and concepts through observation and participation in supervised activities. Assists in the understanding and achievement of learning objectives in field practicum experiences.
**Prerequisites:** SOWK 150, SOWK 210, SOWK 320, SOWK 365, SOWK 375, SOWK 385, and SOWK 387. This course is only open to social work majors who have been formally accepted into the BSW program.
**Corequisites:** SOWK 394.

SOWK 460 Social Welfare Policy 3 Credits
Nature and development of American social policy. Includes history of current structures of social welfare services, the role of policy in service delivery and analysis of current social policy issues including gender policy, homelessness, health care policy, domestic poverty, and child welfare policy. Provides an overview of social policy and legislation and the processes of influencing public policy. It links policy with social work practice.
**Prerequisites:** SOWK 150, SOWK 210, SOWK 311, SOWK 320, SOWK 365, SOWK 375, SOWK 385, and SOWK 387.

SOWK 491 Directed Readings 1-5 Credits
Student and/or faculty initiated special projects/independent study that explores some aspect of social work theory or practice such as: intervention methods, policy, research, populations-at-risk, values and ethics, aging, spirituality, child welfare, addictions, mental health, social and economic justice, and diversity *Restriction: Senior standing, instructor’s permission and a plan for study.
**Prerequisites:** SOWK 150, SOWK 210, SOWK 320, SOWK 365, SOWK 375, and SOWK 387.

SOWK 494 Social Work Practicum Seminar III 1 Credit
Discussion of practicum-related issues, professional development, and exploration of learning objectives in field practicum experiences. Requires regular reporting of field activities.
**Prerequisites:** SOWK 150, SOWK 210, SOWK 320, SOWK 365, SOWK 375, SOWK 385, SOWK 387, SOWK 397, SOWK 394, and SOWK 460.
**Corequisites:** SOWK 497.

SOWK 497 Social Work Practicum II 5 Credits
Involves 225 clock hours per semester. Provides students with opportunities to apply theories, techniques, and concepts through observation and participation in supervised activities. Assists students in the understanding and achievement of learning objectives in their field practicum experiences.
**Prerequisites:** SOWK 150, SOWK 210, SOWK 320, SOWK 365, SOWK 375, SOWK 385, SOWK 387, SOWK 397, SOWK 394. This course is only open to social work majors who have been formally accepted into the BSW program.
**Corequisites:** SOWK 494.
**SOCIOLOGY (SOCO)**

**SOCO 144 Marriage and Families-GTSS3 Credits**
Survey of patterns of marriage and family life in social context, with an emphasis on sociological explanations of family patterns and relevant policy implications.

**Essential Learning Categories**: Social and Behavioral Sciences

**Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum**

**SOCO 202 Introduction to Sociological Inquiry3 Credits**
Orientation to the sociological major with a focus on introductory methods of sociological research. Preparation for writing and research requirements of upper-division sociology courses. Exploration of possible careers and marketing of skills after graduation.

**Prerequisites**: SOCO 260 or SOCO 264.

**SOCO 260 General Sociology-GTSS3 Credits**
An overview of sociological concepts, terminology, basic principles, and important theories; introduction to substantive areas of the field.

**Essential Learning Categories**: Social and Behavioral Sciences

**Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum**

**SOCO 264 Social Problems-GTSS3 Credits**
Analysis of contemporary social problems from a sociological perspective, including the social construction of problems, theoretical explanations, and policy implications. Specific problems covered will vary but may include topics such as inequality along with problems in social institutions such as the economy, education, and the family.

**Essential Learning Categories**: Social and Behavioral Sciences

**Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum**

**SOCO 296 Topics1-3 Credits**
Course may be taken multiple times up to maximum of 15 credit hours.

**SOCO 300 Political Sociology3 Credits**
The interactions and interrelationships between social and political forces. Topics covered include state and society, the social bases of power, ideology, and the media.

**Prerequisites**: SOCO 260, or POLS 101, or permission of instructor.

**SOCO 303 Sociological Research Methods3 Credits**
Methods of sociological research, including practical application of quantitative methods to social science data, culminating in an individual research project.

**Prerequisites**: SOCO 202 and STAT 215.

**SOCO 305 Environmental Sociology3 Credits**
An overview of the interrelations among the physical environment, population, and technology, the origin and basis of environmental social movement organizations; the social construction of environmental issues.

**Prerequisites**: SOCO 260 or permission of the instructor.

**SOCO 310 Sociology of Religion3 Credits**
Examination of religious beliefs, practices, and organizations from a sociological perspective. Consideration also given to the intersection of religion with race, class, gender, and sexuality.

**Prerequisites**: SOCO 260.

**SOCO 312 Social Movements and Political Activism3 Credits**
Sociological study of historical and contemporary social movements and political activism. Overview of the literature on social movement development, organization, participation and outcomes.

**Prerequisites**: SOCO 260.

**SOCO 314 Population3 Credits**
Basic concepts of population studies in international context. Demographic trends including fertility, mortality and migration, as well as the causes and consequences of those trends.

**Prerequisites**: SOCO 260, or permission of instructor.

**SOCO 316 Social Inequality3 Credits**
Causes and effects of inequality, especially social class, with consideration of race and gender.

**Prerequisites**: SOCO 260, or SOCO 264, or permission of instructor.

**SOCO 318 Sociology of Health & Illness3 Credits**
Exploration of sociological perspectives relating to the definitions and experiences of health and illness. Overview of the literature on social inequalities in health and illness, cultural constructions of illness, social experiences of illness, and local and global health care systems.

**Prerequisites**: SOCO 260.

**SOCO 320 Life Course and Aging3 Credits**
Investigation of development and aging as lifelong processes situated in social context. Exploration and application of a social scientific framework for understanding the interplay between human lives and social change.

**Prerequisites**: SOCO 260.

**SOCO 323 Self and Society3 Credits**
Investigation of microsociology, which examines the nature of everyday social interactions, relationships, and groups. Consideration also given to interdisciplinary perspectives that shed light on human social behavior.

**Prerequisites**: SOCO 260.

**Terms Typically Offered**: Spring.

**SOCO 325 Race and Ethnic Relations3 Credits**
Sociological analysis of race and ethnic relations in the United States both historically and today.

**Prerequisites**: SOCO 260.

**SOCO 340 Sociology of Gender3 Credits**
Investigation of sociological perspectives on gender, with an emphasis on the social construction of gender, gender inequality in social institutions, and patterns of gendered social relations.

**Prerequisites**: SOCO 260.

**SOCO 345 Sociology of Sexuality3 Credits**
Exploration of sexuality from a sociological perspective. Analysis of the intersections of race, class, and gender as well as social institutions as they apply to understanding sexuality.

**Prerequisites**: SOCO 260.

**Terms Typically Offered**: Spring.

**SOCO 351 21st Century Families3 Credits**
Sociological investigation of changing family structures and intimate relationships, with an emphasis on contemporary constructions of family, diverse family forms, the role of gender in family life, and problems faced by contemporary families.

**Prerequisites**: SOCO 260.

**Terms Typically Offered**: Fall.

**SOCO 395 Independent Study1-3 Credits**
Course may be taken multiple times up to maximum of 6 credit hours.
**SOCO 396 Topics** 1-3 Credits  
Course may be taken multiple times up to maximum of 15 credit hours.

**SOCO 400 Classical Social Theory** 3 Credits  
The development of social theory from the Enlightenment through early twentieth century, with emphasis on Marx, Weber, and Durkheim.  
**Prerequisites:** SOCO 260 and 6 credits in upper division SOCO.

**SOCO 410 Contemporary Social Theory** 3 Credits  
An overview of sociological theory from the early 20th century to the present, with an emphasis on the development of contemporary theory from its classical roots.  
**Prerequisites:** SOCO 400.

**SOCO 420 Field Studies** 6 Credits

**SOCO 495 Independent Study** 1-3 Credits  
Course may be taken multiple times up to maximum of 6 credit hours.

**SOCO 496 Topics** 1-3 Credits  
Course may be taken multiple times up to maximum of 15 credit hours.
SPEECH (SPCH)

SPCH 101 Interpersonal Communications 3 Credits
Exploration of multiple aspects of human behavior including
the communication process, perception, verbal and nonverbal
communication, diversity and adapting to others, conflict, culture, and
relationships in personal/professional contexts.
Essential Learning Categories: Social and Behavioral Sciences

SPCH 102 Speechmaking 3 Credits
The preparation, organization, and delivery of a speech.
Essential Learning Categories: Humanities

SPCH 112 Voice and Diction 3 Credits
The use of the speaking voice emphasizing voice placement, speech
sounds, breath control, projection, and the phonetic alphabet.
Recommended for theatre majors, teachers, prelaw, ministers and
business majors.

SPCH 196 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

SPCH 203 Persuasion 3 Credits
Open discussions on the ethics, process, and application of everyday
use of persuasion; how it applies to our advertisements, politics, and
friendships; preparation for debate.
Prerequisites: SPCH 102.

SPCH 241 Oral Interpretation 3 Credits
The reading aloud of prose, poetry, and essays with the intention of
conveying the author’s ideas to a listening audience.

SPCH 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

SPCH 303 Nonverbal Communication 3 Credits
The opportunity to observe, record and interpret the nonverbal
dimensions of communication behavior and the opportunity to enhance
awareness and skill in nonverbal communication behavior in mass media,
law, theatre, group dynamics, etc.

SPCH 304 Communication and Conflict 3 Credits
The nature of conflict, conflict structure, conflict styles, and the use of
power in conflicts. Application of theories to analyze and set goals to
plan strategies and tactics. Study of intervention principles and practices.
Prerequisites: Upper division standing.

SPCH 305 Communication: Culture, Diversity and Gender 3 Credits
Research and practical application to facilitate constructive relationships
with individuals from other countries, with individuals from sub-cultures
within our culture, and with individuals of the opposite sex.
Prerequisites: SPCH 101.

SPCH 306 Communication and Leadership 3 Credits
Study of communication styles of great leaders from every field of
endeavor to determine the sources of their influence over the behaviors,
thoughts, and feelings of their followers. Included will be study of the
historical environments that gave rise to each leader’s style.
Prerequisites: SPCH 101.

SPCH 308 Argumentation and Debate 3 Credits
Research and development of various types of debate such as student
congress, mock trial, value debate, etc., using national and international
topics of current interest.
Prerequisites: SPCH 102 or SPCH 203 or permission of instructor.

SPCH 395 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

SPCH 396 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

SPCH 495 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

SPCH 496 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
STATISTICS (STAT)

STAT 200 Probability and Statistics-GTMA13 Credits
Descriptive statistical methods, elementary probability, sample distribution, binomial, normal, t, and F distributions, parameter estimation, one and two sample tests of hypothesis, simple correlation and regression analysis, one-way analysis of variance, nonparametric inference, time permitting. Introduction to statistical software.
Prerequisites: MATH 110 or MATH 113 or permission of instructor.

STAT 215 Statistics for Social and Behavioral Sciences4 Credits
Descriptive and inferential statistical techniques within the Social and Behavioral Science realm. Topics include: Types of Random Variables, Studies, and Sampling Methods; Plots and Descriptive Statistics; Correlation and Regression; Probability Theory; Hypothesis Testing & Inference including one and two sample t-tests, Chi-Squared Test for Independence, One and Two Factor ANOVA, t-test for Linear Regression Co-variates. SPSS will be used for data analysis.
Prerequisites: MATH 110 or higher, and PSYC 150 or SOCO 260 or CRMJ 201 or POLS 101.

STAT 241 Introduction to Business Analysis3 Credits
Introduction to descriptive, predictive, and inferential analysis techniques, data interpretation, business research skills, and techniques for analysis and modeling of business problems in the workplace using appropriate software.
Prerequisites: MATH 113 or higher.

STAT 305 Statistics and Quality Control for Engineering3 Credits
Introduction to descriptive and inferential statistics, and principles of quality management. Includes descriptive statistics, probability distributions, hypothesis testing, regression analysis, control charts, total quality management, quality improvement process, process capability, gauge repeatability and reproducibility, six-sigma, risk assessment, quality audit and ISO 9000.
Prerequisites: MATH 135 or MATH 151, and CSCI 130.

STAT 311 Statistical Methods3 Credits
Power of statistical tests, categorical data techniques, inference about population means and variances, nonparametric methods, simple and multiple linear regression and correlation, analysis of variance, multiple comparisons, introduction to some experimental designs. Use of statistical software.
Prerequisites: STAT 200.

STAT 313 Sampling Techniques3 Credits
Methodology of simple random sampling, stratified, systematic cluster, and two-stage sampling is developed. Estimation of sample size determination, and minimized costs of sampling are discussed. Use of resampling statistical software.
Prerequisites: STAT 200.

STAT 350 Mathematical Statistics I3 Credits
This course is a continuation of STAT 350 Mathematical Statistics I. This course is a calculus-based theoretical study of point estimators by method of moments and maximum likelihood, confidence intervals, hypothesis testing, simple linear regression, analysis of variance, and nonparametric methods. Additional topics may include experimental design, quality control, multiple linear regression, and survival analysis.
Prerequisites: STAT 350.

STAT 351 Mathematical Statistics II3 Credits
This course is a continuation of STAT 350 Mathematical Statistics II. This course is a calculus-based theoretical study of point estimators by method of moments and maximum likelihood, confidence intervals, hypothesis testing, simple linear regression, analysis of variance, and nonparametric methods. Additional topics may include experimental design, quality control, multiple linear regression, and survival analysis.
Prerequisites: STAT 350.

STAT 395 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

STAT 396 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

STAT 412 Correlation and Regression3 Credits
Graphical, numerical, and theoretical least-squares analysis for simple and multiple regression and correlation, including inference methods, diagnostics and remedial measures, simultaneous inference methods, the matrix approach to regression and correlation analysis, stepwise regression procedures. Use of statistical software.
Prerequisites: STAT 311, and MATH 121 or MATH 135 or MATH 146 or MATH 151.

STAT 425 Design and Analysis of Experiments3 Credits
Design and analysis of single and multiple factor experiments, fixed, mixed and random effects designs including multiple comparison procedures, transformations, fixed and random effects designs, completely randomized designs, randomized block designs, Latin square designs, and nested designs.
Prerequisites: STAT 311, and MATH 121 or MATH 135 or MATH 146 or MATH 151.

STAT 494 Seminar1 Credit
Discussions of specialized topics by students, faculty, or visiting professors. One-hour meeting per week.
Course may be taken 10 times for credit.

STAT 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

STAT 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
**SURGICAL TECHNOLOGY (SUTE)**

**SUTE 200 Medical Terminology in Surgical Technology 3 Credits**
Exploration of word roots, prefixes, and suffixes used in medical language today. Students will learn to combine words to create appropriate medical conditions. Students will learn medical terms, spelling, and definitions related to major body systems, surgical procedures, and conditions associated with the operating room.

**Prerequisites:** Admission to the Surgical Technology Program, Completion of Surgical Technology Foundation courses, BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, BIOL 241, and PSYC 150.

**Corequisites:** SUTE 202, SUTE 204, and SUTE 206.

**SUTE 202 Fundamentals in Surgical Technology 4 Credits**
Approaches to surgical technology. Students will learn tasks and responsibilities of the surgical technologist including the practice of sterile technique, surgical scrub, gown and glove, patient positioning, draping, and surgical prep on patients. Students will learn the practice of standard precautions in surgery. Skills will be practiced in a clinical setting.

**Prerequisites:** Admission to the Surgical Technology Program, Completion of Surgical Technology Foundation course, BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, BIOL 241, and PSYC 150.

**Corequisites:** SUTE 200, SUTE 204, and SUTE 206.

**SUTE 204 Basic Surgical Technology Skills Lab 4 Credits**
Clinical approaches to surgical technology. Students will demonstrate the use of electrocautery and laser equipment, as well as endoscopic instruments. They will describe commonly used lab and x-ray tests, as well as instrumentation used for abdominal and laparoscopic procedures. Students will demonstrate basic set up for urology, and ear, nose, throat and eye procedures.

**Prerequisites:** Admission to the Surgical Technology Program; Completion of Surgical Technology Foundation course; BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, BIOL 241, and PSYC 150.

**Corequisites:** SUTE 200, SUTE 202, and SUTE 206.

**SUTE 206 Pharmacology for Surgical Technology 2 Credits**
Exploration of safe use of prescription and nonprescription drugs. Emphasis will be placed on the impact of safe drug use in promoting and maintaining health. The course will examine how drugs affect the body by changing many of its normal mechanisms and thereby contributing to potential health problems during surgery.

**Prerequisites:** Admission to the Surgical Technology Program; Completion of Surgical Technology Foundation courses, BIOL 209/BIOL 209L, BIOL 210/BIOL 210L, BIOL 241, and PSYC 150.

**Corequisites:** SUTE 200, SUTE 202, and SUTE 204.

**SUTE 210 Safety in Surgical Technology 3 Credits**
Exploration of information to prepare, plan, detect and communicate safety and security in the surgical arena. Students will learn tasks and responsibilities of incident-management, all-hazard preparation, and components for personal, community, and institutional disaster planning. They will learn OSHA, CDC, and environmental safety and protection for their practice.

**Prerequisites:** SUTE 200, SUTE 202, SUTE 204, and SUTE 206.

**Corequisites:** SUTE 212, SUTE 214, and SUTE 218.

**SUTE 212 Surgical Procedures I 3 Credits**
Exploration of specific surgical specialties including General Surgery, Obstetrics and Gynecologic, Genitourinary, Orthopedics, and Neurosurgical. This course introduces the student to the surgical specialties with a focus on a systems review of pathology in conjunction with specific procedures performed, specialized instrumentation, and surgical modalities of each surgical specialty.

**Prerequisites:** SUTE 200, SUTE 202, SUTE 204, and SUTE 206.

**Corequisites:** SUTE 210, SUTE 214, and SUTE 218.

**SUTE 214 Surgical Procedures II 3 Credits**
Exploration of specific surgical specialties including Otorhinolaryngologic, Oral and Maxillofacial, Plastic and Reconstructive, Ophthalmic, Cardiothoracic, and Peripheral Vascular. Students will learn the surgical specialties with a focus on a systems review of pathology in conjunction with specific procedures performed, specialized instrumentation, and surgical modalities of each surgical specialty.

**Prerequisites:** SUTE 200, SUTE 202, SUTE 204, and SUTE 206.

**Corequisites:** SUTE 210, SUTE 212, and SUTE 218.

**SUTE 218 Specialty Surgical Procedures 4 Credits**
Exploration of specific surgical specialties including plastic, pediatric, ophthalmic, vascular, orthopedic, neurosurgery, thoracic, and cardiac surgery. The student will focus on a systems review of pathology in conjunction with specific procedures performed, specialized instrumentation, and surgical modalities of each surgical specialty.

**Prerequisites:** SUTE 200, SUTE 202, SUTE 204, and SUTE 206.

**Corequisites:** SUTE 210, SUTE 212, and SUTE 214.

**SUTE 220 Surgical Practicum I 4 Credits**
Development of the student’s individualized experience via practice in the field. Emphasis is placed on demonstrating proficiency in skills necessary for participation in basic surgical procedures. This course will afford the student the opportunity to build on skills learned and actively participate in selected surgical procedures in the basic surgical specialties learned in Surgical Procedures 1.

**Prerequisites:** SUTE 210, SUTE 212, SUTE 214, and SUTE 218.

**Corequisites:** SUTE 230 and SUTE 240.

**SUTE 230 Surgical Practicum II 4 Credits**
Development of the student’s individualized experience via practice in the field. Emphasis is placed on demonstrating proficiency in skills necessary for participation in basic surgical procedures learned in Surgical Procedures 2.

**Prerequisites:** SUTE 210, SUTE 212, SUTE 214, and SUTE 218.

**Corequisites:** SUTE 220 and SUTE 240.

**SUTE 240 Surgical Practicum III 4 Credits**
Development of the student’s individualized experience via practice in the field. Emphasis is placed on demonstrating proficiency in skills necessary for participation in basic surgical procedures in specialty areas learned in Specialty Surgical Procedures. The student will prepare for the final competencies and prepare for transition to the work environment.

**Prerequisites:** SUTE 210, SUTE 212, SUTE 214, and SUTE 218.

**Corequisites:** SUTE 220 and SUTE 230.
TECHNOLOGY INTEGRATION (TECI)

TECI 111 Healthcare Data Management and Information Systems 3 Credits
Introduction to the electronic health record (EHR) components and health informatics including infrastructure, privacy, security, and legal implications. Federal involvement and its impact on information technology regarding health data will be discussed. The transformation of data into meaningful information, through research, vital statistics, and epidemiology will be demonstrated. Data quality, integrity, collection, access, and retention will also be emphasized.

TECI 118 AC Passive Circuits 3 Credits
Analysis of AC circuits including resistors, capacitors, inductors, and use of standard test equipment. Three one-hour lectures and one one-and-one-half hour laboratory per week.
Corequisites: TECI 118.

TECI 118L AC Passive Circuits Laboratory 1 Credit
Lab component required for TECI 118.
Corequisites: TECI 118.

TECI 131 Principles of Information Assurance 3 Credits
Exploration of skills and knowledge required to survey key issues associated with protecting information assets, determine the levels of protection and response to security incidents, and design a consistent, reasonable information security system. Students learn to inspect and protect information assets, detect and react to threats to information assets, and examine pre- and post-incident procedures.

TECI 132 Introduction to IT Hardware and System Software 3 Credits
Basic hardware and software study of stand-alone or local/wide-area computers. Hands-on experience using 5x or above architecture.

TECI 142 Internet of Things 3 Credits
Introduction to the network and how the internet expands to sectors such as manufacturing floors, energy grids, healthcare facilities, and transportation. Students will learn the network of physical objects that contain embedded technology to communicate and interact with their internal states. Topics will also include cloud applications and cloud-based office productivity software.

TECI 163 Convergent Technologies 3 Credits
Introduction to telecommunications, including how data, voice, and video technologies are converging for telecommunications systems. Topics will also include wireless, ISDN, PCM, DSL, cable, IP voice, and computer networks.

TECI 170 Introduction to Communications 3 Credits
Overview of communication systems that include both central office based and premise based platforms. The switching and service components of RBOC and inter-exchange providers will be examined and discussed. Characteristics, advantages, and disadvantages of the various systems will be compared and contrasted. Architecture and design of switching infrastructures and components will also be covered.

TECI 180 Cisco Networking I 3 Credits
The first of four semester courses in Cisco's Networking Academy curriculum. Concepts covered are: OSI model, internetworking devices, IP addressing, LAN media and topologies, structured cabling, electronics. CCNA certified individual can perform the following tasks: -Install and configure Cisco Switches and routers in multi-protocol internetworks using LAN and WAN interfaces. -Provide Level 1 troubleshooting service -Improve network performance and security -Perform entry-level tasks in the planning, design, installation, operation, and troubleshooting of Ethernet and TCP/IP networks.

TECI 185 Cisco Networking II 3 Credits
The second of four semester courses in Cisco's Networking Academy curriculum. Concepts covered are: Safety; Networking; Network terminology and protocols; Network standards; LANs, MANs, SANs, WANS; OSI model; Ethernet; Token ring; FDDI; TCP/IP addressing protocol; Dynamic routing, the Network Administrator's role and function.
Prerequisites: TECI 180.

TECI 195 Independent Study 1-4 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

TECI 196 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

TECI 230 Cisco Networking III 3 Credits
The third of four semester courses in Cisco's Networking Academy curriculum. Concepts covered are: LAN switching; VLANs; LAN design; IGRP; Access lists; IPX/SPX; with concepts applied through design of a Threaded Case Study (TCS).
Prerequisites: TECI 180 and TECI 185.

TECI 235 Cisco Networking IV 3 Credits
The fourth of four semester courses in Cisco's Networking Academy curriculum. Concepts covered are: WANs, SANs design; PPP; ISDN; Frame relay; Master documentation skills; with concepts applied through design of a Threaded Case Study (TCS).
Prerequisites: TECI 180, TECI 185, and TECI 230.

TECI 240 VoIP Fundamentals 3 Credits
Covers the components of engineering the telephone outside plant, fundamentals of transmission, resistance design, and distribution cable design in serving a customer area.

TECI 242 Cloud Computing 3 Credits
Introduction to cloud computing and how to install, configure, and manage a cloud environment. Builds on knowledge of hypervisor and virtual machine environments.

TECI 245 Security Fundamentals 3 Credits
Comprehensive overview of network security. Includes general security concepts. Communication security includes remote access, e-mail, the Web, directory and file transfer, and wireless data. Common network attacks introduced. Cryptography basics incorporated. Operational/ organizational security discusses as it relates to physical security, disaster recovery, and business continuity. Computer forensics introduced.

TECI 260 Information Technology Hardware and System Software 3 Credits
Use of an internal systems approach to building and maintaining stand-alone or local/wide area computers utilized in networking. Hands on experience using 5x or above architecture.
TECI 265 Advanced IT Hardware and System Software 3 Credits
Prerequisites: TECI 260.

TECI 292 Capstone in Technical Engineering Planning and Economics 4 Credits
Knowledge to articulate the tactical planning functions performed within capacity provisioning. Access and apply the various tactical planning tools and data elements to supporting documentation. Economic principles in costing, value, capital investment, profitability and inventory.

TECI 295 Independent Study 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.
THEATRE (THEA)

THEA 102 Introduction to Theatre Technology: Stagecraft 2 Credits
Introduction to basic scene shop safety, organization of materials, hand and machine carpentry and basic stagecraft techniques.

THEA 103 Introduction to Theatre Technology: Costume 2 Credits
Introduction to basic costume shop safety, organization and materials, hand and machine sewing.

THEA 104 Introduction to Theatre Technology: Lighting 2 Credits
Introduction to basic lighting safety and procedures of hang, focus, color and circuitry.

THEA 105 Introduction to Theatre Technology: Sound Technology 2 Credits
Introduction to basic theatre sound design, protocol, and execution, including live audio technology and computer editing.

THEA 114 Summer Theatre 3 Credits
Professional summer theatre experience. The student is expected to participate in all phases of the theatre operation including acting, technical work, directing, box office management, etc. It is advisable for a student enrolled in summer theatre not to enroll in any other class. Five plays are presented in a seven-week period.

THEA 116 Music Theatre Workshop 1 Credit
A performance-based ensemble that combines musical theatre singing, acting, and dancing into a unified performance. Through focus on the works of specific composers and/or stylistic eras, students will produce and perform a musical revue for a public audience. Intended for Music Theatre majors, but students from other disciplines are invited to enroll.
Prerequisites: THEA 153, MUSL 137, or permission of instructor.

THEA 117 Play Production 1 Credit
A practical course in stagecraft concerned with the production of plays. The student works in all phases of production. Students will work three hours per week unless other arrangements are made with the instructor.

THEA 118 Play Production 1 Credit
A practical course in stagecraft concerned with the production of plays. The student works in all phases of production. Students will work three hours per week unless other arrangements are made with the instructor.

THEA 119 Technical Performance 1 Credit
Direct participation in the technical aspects of various productions. Grade will depend upon the preparatory work involved and upon the final technical production. Students must work a minimum of two productions in order to receive credit.

THEA 120 Technical Performance 1 Credit
Direct participation in the technical aspects of various productions. Grade will depend upon the preparatory work involved and upon the final technical production. Students must work a minimum of two productions in order to receive credit.

THEA 128 Theatre Forums 1 Credit
Specialized workshops in various aspects of theatre made possible by visiting artists and/or lecturers or by attending seminars or workshops. Papers and discussions are used for evaluation.

THEA 129 Theatre Forums 1 Credit
Specialized workshops in various aspects of theatre made possible by visiting artists and/or lecturers or by attending seminars or workshops. Papers and discussions are used for evaluation.

THEA 130 Script Analysis 3 Credits
Introduction to practical analysis for enhancing the move from script to performance. Familiarizes students with script analysis techniques useful to the collaborative theatrical team.

THEA 141 Theatre Appreciation-GTAH 13 Credits
Examination of basic presentation techniques and history of theatre. Essential Learning Categories: Fine Arts Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

THEA 142 Make-up 3 Credits
All types of make-up for the stage. Students examine straight and character make-up techniques and learn the use of crepe hair, prosthetics, and other material.

THEA 145 Introduction to Dramatic Literature-GTAH 13 Credits
Dramatic literature from classical Greeks to modern dramatists. Essential Learning Categories: Fine Arts Colorado Guaranteed Transfer (GT) Pathways General Education Curriculum

THEA 147 Drama Performance 1-2 Credits
Requires a student to appear in a major production on campus. The grade will depend upon the preparatory work on the play's character and upon the final performance.
Prerequisites: Permission of instructor.

THEA 148 Drama Performance 1-2 Credits
Requires a student to appear in a major production on campus. The grade will depend upon the preparatory work on the play's character and upon the final performance.
Prerequisites: Permission of instructor.

THEA 150 Fundamentals of Acting 3 Credits
This course will introduce non-theatre majors to the basic components of the acting process, including scene work, improvisation, and audition techniques.

THEA 153 Acting I: Beginning Acting 3 Credits
Fundamentals of Acting via improvisation and scene study. Students perform in solo, duo and/or group scenes.
Prerequisites: Theatre Arts major or minor in good standing.

THEA 156 Acting II: Contemporary Scenework 3 Credits
Further development in the application of Stanislavski-based theory studied in Acting I. Includes substantial scene and monologue work in addition to beat analysis. Continued investigation into the depth and breadth of the actor's art.
Prerequisites: THEA 153 or permission of instructor.

THEA 196 Topics 1-3 Credits
Course may be taken multiple times up to a maximum of 15 credit hours.

THEA 202 Theatrical Design Studio I 3 Credits
Exposure to the elements of design in a theatrical context through lectures and projects.
Prerequisites: THEA 102, THEA 103, THEA 104, THEA 105, or ARTA 123 or ARTE 101 or ARTG 122

THEA 203 Theatrical Design Studio II 3 Credits
Exploration of the collaborative process in theatrical design.
Prerequisites: THEA 202.

THEA 213 Creative Play Activities-Drama 2 Credits
Creative dramatics in a learning situation. Includes subject matter of interest to anyone in early childhood education, general education, social work, religious education, and/or recreation.
THEA 214 Summer Theatre 3 Credits
See THEA 114.

THEA 216 Music Theatre Workshop 1 Credit
A performance-based ensemble that combines musical theatre singing, acting, and dancing into a unified performance. Through focus on the works of specific composers and/or stylistic eras, students will produce and perform a musical revue for a public audience. Intended for Music Theatre majors, but students from other disciplines are invited to enroll.
Prerequisites: THEA 153, MUSL 137, or permission of instructor.

THEA 217 Play Production 1 Credit
See THEA 117 or TEHA 118.
Prerequisites: Courses must be taken in sequence or by permission of the instructor.

THEA 218 Play Production 1 Credit
See THEA 117 or THEA 118.
Prerequisites: Courses must be taken in sequence or by permission of the instructor.

THEA 219 Technical Performance 1 Credit
See THEA 119 or THEA 120.

THEA 220 Technical Performance 1 Credit
See THEA 119 or THEA 120.

THEA 228 Theatre Forums 1 Credit
See THEA 128 or THEA 129.

THEA 229 Theatre Forums 1 Credit
See THEA 128 or THEA 129.
Course may be taken 10 times for credit.

THEA 247 Drama Performance 1-2 Credits
Course may be taken 4 times for credit.

THEA 248 Drama Performance 1-2 Credits
See THEA 147 or THEA 148.
Prerequisites: Permission of instructor.

THEA 253 Acting III: Stage Movement 3 Credits
Basic techniques of gesture, movement styles, and combat. Developing an awareness of the use of the body as a means of expression is emphasized.
Prerequisites: THEA 156 or permission of instructor.

THEA 255 Musical Theatre Techniques 3 Credits
Exploration of solo song interpretation Emphasis on basic mechanical, analytical, and physical skills needed to perform musical theatre. Building on an acting foundation, issues of range and vocal support as well as style and repertory will be emphasized.
Prerequisites: THEA 150 or THEA 153; MUSA 137, or one semester of private vocal study, or by permission of instructor.

THEA 256 Acting IV: Auditions 3 Credits
Resume writing. Choice and preparation of effective audition pieces.
Prerequisites: THEA 253 or permission of instructor.

THEA 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

THEA 300 Advanced Acting: Stage Combat 2 Credits
This course is designed to introduce the actor to advanced study in various theatrical fighting styles including: unarmed, rapier and dagger, sword and shield, smallsword, broadsword, knife, single sword, and quarterstaff. The student will learn stage combat techniques adapted from actual historical fighting techniques and use those techniques in scenework.
Prerequisites: THEA 253.
Course may be taken 3 times for credit.

THEA 303 Theatrical Design Studio III 3 Credits
Development of further projects in collaborative Theatrical Design.
Prerequisites: THEA 203

THEA 314 Summer Theatre 3 Credits
See THEA 114.

THEA 316 Music Theatre Workshop 1 Credit
A performance-based ensemble that combines musical theatre singing, acting, and dancing into a unified performance. Through focus on the works of specific composers and/or stylistic eras, students will produce and perform a musical revue for a public audience. Intended for Music Theatre majors, but students from other disciplines are invited to enroll.
Prerequisites: THEA 153, MUSL 137, or permission of instructor.

THEA 317 Play Production 1 Credit
See THEA 117 or THEA 118.
Prerequisites: Courses must be taken in sequence or by permission of the instructor.

THEA 318 Play Production 1 Credit
See THEA 117 or THEA 118.
Prerequisites: Courses must be taken in sequence or by permission of the instructor.

THEA 319 Technical Performance 1 Credit
See THEA 119 or THEA 120.

THEA 320 Technical Performance 1 Credit
See THEA 119 or THEA 120.

THEA 322 Stage Management 3 Credits
Theory and principles of human resources management, theatre technical production and actual stage management situations.
Prerequisites: THEA 153 or THEA 243 or THEA 244 or permission of instructor.

THEA 323 Computer Aided Drafting for the Theatre 3 Credits
Exploration of Vectorworks and other 3D computer aided drafting software (CAD) to create plots and drawings for theatrical scenic and lighting designs.
Prerequisites: THEA 102 and THEA 104.

THEA 325 Rigging and Special Effects 3 Credits
Introduction to stage rigging, hanging lighting and scenery, weighting, safety, and flying hard and soft goods. Advanced technique of theatre technology including smoke, electrics, and other backstage effects.
Prerequisites: THEA 102 and THEA 104.

THEA 327 Multimedia Technology for the Theatre 3 Credits
Application of video projection technology and integrated show control software to create original designs for live performance.
Prerequisites: THEA 102 and THEA 104.

THEA 328 Theatre Forums 1 Credit
See THEA 128 or THEA 129.

THEA 329 Theatre Forums 1 Credit
See THEA 128 or THEA 129.
THEA 331 Theatre History I: 400 B.C. to 16423 Credits
History of theatre as an institution and its relationship to the other arts and to the social and economic environment, from 400 B.C. to 1642 A.D.

THEA 332 Theatre History II: From 1642 to the Present3 Credits
Major world theatre events from 1642 to the present day.

THEA 333 Art, Architecture and Fashion: Prehistory to the Present3 Credits
Exploration of art, architecture, and fashion from Pre-History to the present.

THEA 341 Musical Theatre History and Literature3 Credits
In-depth study of the literature and styles of the master composers of music theatre from its beginnings through the present day. Course work is designed for the Musical Theatre major, utilizing lecture and listening lab format and a research paper on a subject of the student’s choice.

THEA 343 Scene Design3 Credits
Experience in the designing of scenery and props for various types of productions with emphasis on research, acquisition, drafting, perspective, and rendering techniques.
Prerequisites: THEA 243 or permission of instructor.

THEA 344 Advanced Stage Lighting3 Credits
Advanced training in the design and execution of lighting for the stage.
Prerequisites: THEA 244 or permission of instructor.

THEA 345 World Drama3 Credits
Students will examine the richness and diversity of contemporary world theatre and drama from a global context.

THEA 347 Drama Performance1–2 Credits
See THEA 147 or THEA 148.
Prerequisites: Permission of instructor.
Course may be taken 4 times for credit.

THEA 353 Advanced Acting: Styles in Acting3 Credits
Various styles of acting used for the Classical, Elizabethan, Romantic, 19th century Melodrama and Realistic periods.
Prerequisites: THEA 256 or permission of instructor.

THEA 354 Advanced Acting: The Meisner Approach3 Credits
An examination of the Meisner Approach, the "film industry standard" technique that actors use to explore the Realistic/Naturalistic genre of plays and screenplays.
Prerequisites: THEA 256 or permission of instructor.

THEA 355 Music Theatre Repertoire3 Credits
Further development of song interpretation through scene study and ensemble performance. Emphasis on creating performances unified both dramatically and musically through show research and script analysis to develop characterization.
Prerequisites: THEA 255, DANC 174, and DANC 177, or permission of instructor.

THEA 356 Advanced Acting: Dialects3 Credits
Introduces students to the fundamentals of acting while using common stage dialects.
Prerequisites: SPCH 112 and THEA 256, or permission of instructor.

THEA 360 Costume Construction I13 Credits
An introduction to developing period patterning, interpreting a rendering into finished garment, investigating ethnic styles and refining creative problem-solving skills.
Prerequisites: THEA 260.

THEA 361 Costume Construction II3 Credits
Introduction to developing period patterning, interpreting a rendering into finished garment, investigating ethnic styles and refining creative problem-solving skills.
Prerequisites: THEA 260.

THEA 363 Improvisation2 Credits
Introduction to basic improvisational acting techniques, utilizing guided lectures and exercises and illustrating the role of non-script work in the development of the student actor. Students will create characters, scenes, and short original works.
Prerequisites: THEA 256.

THEA 367 World's Greatest Filmes3 Credits
Aesthetics and elements that qualify film as an important art form as seen through the major contributors from three important culturally diverse areas of the world: Europe, Asia and America.

THEA 368 Playwriting I3 Credits
Fundamentals of playwriting through a systematic, textual approach, the proper format of scriptwriting, and the writing of short scripts based on common thematic elements.

THEA 369 Directing I3 Credits
The fundamentals of directing culminating in the direction of a scene or short play for public viewing.
Prerequisites: Junior or senior level Acting/Directing major, or permission of instructor.

THEA 371 Directing II3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 372 Directing III3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 373 Independent Study1–2 Credits
Theatre and Drama from a global context.
Prerequisites: THEA 351 or permission of instructor.
Course may be taken multiple times up to maximum of 6 credit hours.

THEA 374 Topics1–3 Credits
Theatre and Drama from a global context.
Prerequisites: THEA 351 or permission of instructor.
Course may be taken multiple times up to maximum of 15 credit hours.

THEA 375 Theatrical Design Studio IV3 Credits
Advanced training in the design and execution of lighting for the stage.
Prerequisites: THEA 244 or permission of instructor.

THEA 376 World's Greatest Films3 Credits
Aesthetics and elements that qualify film as an important art form as seen through the major contributors from three important culturally diverse areas of the world: Europe, Asia and America.

THEA 377 Improvisation2 Credits
Introduction to basic improvisational acting techniques, utilizing guided lectures and exercises and illustrating the role of non-script work in the development of the student actor. Students will create characters, scenes, and short original works.
Prerequisites: THEA 256.

THEA 378 Directing I3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 379 Directing II3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 380 Directing III3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 381 Directing IV3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 382 Directing V3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 383 Directing VI3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 384 Directing VII3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 385 Directing VIII3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 386 Directing IX3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 387 Directing X3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 388 Directing XI3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 389 Directing XII3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 390 Directing XIII3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 391 Directing XIV3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 392 Directing XV3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 393 Directing XVI3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 394 Directing XVII3 Credits
Advanced directing techniques and production of a one-act play for public viewing.
Prerequisites: THEA 381 or permission of instructor.

THEA 395 Independent Study1–3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

THEA 396 Topics1–3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

THEA 400 Sound Design for Theatre3 Credits
Incorporates theory and practice of conceptual sound design for live theatre, with extensive work in QLab software. This course will apply extensive knowledge and use of sound recording devices, mixing software, sound effects libraries, and playback methods.

THEA 401 Career Preparation3 Credits
An introduction to the administrative and business aspects of the performing arts.
Prerequisites: Senior standing or permission of instructor.

THEA 402 Methods of Teaching Drama and Speech3 Credits
Teaching communication, speechmaking, debate and discussion, creative drama, oral interpretation, play selection and direction in the public schools.
Prerequisites: Junior standing in English education or speech/theatre programs.

THEA 403 Theatrical Design Studio IV3 Credits
Development of further projects in collaborative Theatrical Design.
Prerequisites: THEA 202 and THEA 203.

THEA 404 Theatrical Design Studio IV3 Credits
Development of further projects in collaborative Theatrical Design.
Prerequisites: THEA 202 and THEA 203.

THEA 411 American Drama3 Credits
The study of American drama and theatre trends from the first American playwright to the current trends of today.

THEA 412 Contemporary Drama3 Credits
A study of contemporary drama from the advent of Realism to the present day.

THEA 414 Summer Theatre3 Credits
See THEA 114.
THEA 416 Music Theatre Workshop1 Credit
A performance-based ensemble that combines musical theatre singing, acting, and dancing into a unified performance. Through focus on the works of specific composers and/or stylistic eras, students will produce and perform a musical revue for a public audience. Intended for Music Theatre majors, but students from other disciplines are invited to enroll.
Prerequisites: THEA 153, MUSL 137, or permission of instructor.

THEA 417 Play Production1 Credit
See THEA 117 or THEA 118.
Prerequisites: Courses must be taken in sequence or by permission of the instructor.

THEA 418 Play Production1 Credit
See THEA 117 or THEA 118.
Prerequisites: Courses must be taken in sequence or by permission of the instructor.

THEA 419 Technical Performance1 Credit
See THEA 119 or THEA 120.

THEA 420 Technical Performance1 Credit
See THEA 119 or THEA 120.

THEA 428 Theatre Forums1 Credit
See THEA 128 or THEA 129.

THEA 429 Theatre Forums1 Credit
See THEA 128 or THEA 129.

THEA 445 Senior Tech/Design Capstone3 Credits
Work experience in various aspects of theatre tech/design.
Prerequisites: Senior standing or permission of instructor.

THEA 446 Senior Tech/Design Capstone3 Credits
Work experience in various aspects of theatre tech/design.
Prerequisites: Senior standing or permission of instructor.

THEA 447 Drama Performance1-2 Credits
See THEA 147 or THEA 148.
Prerequisites: Permission of instructor.

THEA 448 Drama Performance1-2 Credits
See THEA 147 or THEA 148.
Prerequisites: Permission of instructor.

THEA 453 Advanced Acting: Acting for the Camera3 Credits
The transition from stage acting techniques to camera acting techniques. Students will have the opportunity to work on camera with simplified sets and properties.
Prerequisites: THEA 256 or permission of instructor.

THEA 454 Advanced Acting: Elizabethan Acting Techniques3 Credits
An in-depth exploration of acting approaches to the verse drama of Shakespeare.
Prerequisites: THEA 256 or permission of instructor.

THEA 459 Advanced Acting: Chekhov Technique3 Credits
Introduction and exploration of the Michael Chekhov Acting technique.
Prerequisites: THEA 256 or permission of instructor.

THEA 490 Honors Seminar3 Credits
Advanced study of the creative process for students accepted into the Theatre Arts Honors Program. Topics will include commonalities to all creative processes and the interface between the artist, their work, and their community.
Prerequisites: Acceptance into the Theatre Arts Honors Program.

THEA 494 Performance Seminar: Acting/Directing and Musical Theatre Capstone3 Credits
Exploration of theories of audition, rehearsal and performance for upper division performance majors.

THEA 495 Independent Study1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

THEA 496 Topics1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

THEA 498 Honors Project/Thesis3 Credits
Development of individualized research and writing for the student accepted into the Department of Theatre Arts Honors program.
Prerequisites: Acceptance into the Theatre Arts Honors Program.

THEA 499 Internship1-9 Credits
Work in acting/directing, design/tech, music theatre and theatre management, or other situations that meet the instructor’s approval.
Prerequisites: Senior standing and permission of the instructors.
Course may be taken multiple times up to maximum of 15 credit hours.
TRANSPORTATION SERVICES-AUTOMOTIVE (TSTA)

TSTA 245 Manual Drive Trains 4 Credits
Standard repair practices for drive train components to include: clutch, transmission, transaxle, drive axle, driveline, c-v and R & R procedures.

TSTA 247 Automatic Drive Train Service 4 Credits
Standard repair practices for automatic drive trains to include: diagnosis, testing, R & R, and servicing of transaxles/rear wheel drive transmissions.
**Prerequisites:** TSTC 100, TSTC 140, and TSTC 101.

TSTA 265 Engine Control Services 3 Credits
Repair and diagnosis of engine control systems with an emphasis on scan tool diagnosis and live hands on repair of systems.
**Prerequisites:** TSTC 100, TSTC 101, TSTC 130, and TSTC 160.

TSTA 267 Body Controls 3 Credits
Theory, repair, and diagnosis of body accessories including air bags, electronic monitors, power seats, windows and wipers.
**Prerequisites:** TSTC 100, TSTC 130, and TSTC 160.

TSTA 275 Alignment and Suspension Service 3 Credits
Introduction to anti-lock brake systems to include: ABS types and operation, diagnostics, traction control, stability control, regenerative braking and active braking systems.

TSTA 286 Hybrid Vehicles 2 Credits
Introduction to hybrid technology in the transportation industry including: power and transmission designs, batteries, plug-in technology, control systems, safety, associated systems, diagnostics and repair of the modern hybrid vehicle.
**Prerequisites:** TSTC 100, TSTC 130, and TSTC 160.

TSTA 287 Engine Performance and Emissions 3 Credits
Diagnosis and repair of engine performance and emissions-related failures. Emphasis on strategy based diagnostics through the use of exhaust gas analysis.
**Prerequisites:** TSTC 100, TSTC 130, TSTC 160, and TSTA 265.

TSTA 289 Alternative Fueled Vehicles 2 Credits
Introduction to the operational theory and principles, safety and repair of hybrid, fuel cell and hydrocarbon and alcohol-based alternative fueled vehicles. Emphasis on industry standard safety and repair practices.
**Prerequisites:** TSTC 130 and TSTC 160.
TRANSPORTATION SERVICES -CORE (TSTC)

TSTC 100 Introduction to Transportation Services 2 Credits
Introduction to procedures, tool usage, basic shop safety, basic employment skills, job documentation and equipment usage.

TSTC 101 Vehicle Service and Inspection 3 Credits
Introduction to vehicle systems, maintenance, inspection, internal combustion engine theory, systems diagnosis, fundamentals and evaluation. Service of the vehicle systems with emphasis on inspection and observation.

TSTC 130 Electrical I 2 Credits
Introduction to electrical theory, circuits, components, testing and use of test equipment.

TSTC 160 Electrical II 2 Credits
Study of electronic control systems applied to today’s modern vehicles. Emphasis on sensors, actuators, and diagnostic techniques.

TSTC 170 Chassis Fundamentals 2 Credits
Introduction to front and rear suspension systems, including: steering front end geometry, maintenance, light repair and component nomenclature.

TSTC 171 Brakes I 2 Credits
Theory, components, general repair practices and diagnosis of current brake systems.
TRANSPORTATION SERVICES - DIESEL (TSTD)

TSTD 177 Air Systems Repair and Service 2 Credits
This course studies the air systems on the heavy duty truck. The brakes, transmission shift, seats, and rear axle shift will be covered, to include, service and repair of components and systems. Repair of foundation brakes will also be included.

TSTD 215 Diesel Engine Reconditioning 5 Credits
Industry standard rebuild practices for diesel engines. R & R of engine, complete disassembly, assembly and running of engine is covered. Tune-up and fuel system adjustment are covered.

TSTD 265 Diesel Engine Controls 3 Credits
Repair and diagnosis of engine control systems with an emphasis on scan tool diagnosis and live hands-on repair of systems.

TSTD 275 Heavy Duty Suspension 2 Credits
Types of on-road suspensions, tires, repair of components, diagnosis, measurements, and adjustments to front and rear suspensions.
TRANSPORTATION SERVICES-GENERAL (TSTG)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSTG 115</td>
<td>Gas Engine Reconditioning</td>
<td>4</td>
<td>Industry standard rebuild practices for gas engines. R &amp; R of engine, complete disassembly, assembly and running of engine is covered.</td>
<td>TSTC 100, TSTC 110, and TSTC 101.</td>
</tr>
<tr>
<td>TSTG 120</td>
<td>Industrial Safety Practices</td>
<td>2</td>
<td>Overview of current OSHA and EPA general industry regulations with an emphasis on hazardous materials, right-to-know, record keeping, and worker role in safety.</td>
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<tr>
<td>TSTG 135</td>
<td>Starting and Charging Systems</td>
<td>2</td>
<td>Electrical component repair to include: alternators, starters, wiring, and other electrical components.</td>
<td>TSTC 100, TSTC 101, TSTC 130, and TSTC 160.</td>
</tr>
<tr>
<td>TSTG 150</td>
<td>Fluid Power</td>
<td>3</td>
<td>Principles of hydraulics and pneumatic system including the construction, application, repair, maintenance and troubleshooting of components and systems.</td>
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<tr>
<td>TSTG 175</td>
<td>Brakes II</td>
<td>2</td>
<td>Repair of brake systems to include: shoes, pads, cylinder reconditioning, machining rotors and drums, diagnosis, bleeding, R &amp; R components, parking brakes and anti-lock systems.</td>
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<tr>
<td>TSTG 195</td>
<td>Climate Control</td>
<td>4</td>
<td>Repair, diagnosis, R &amp; R of components, charging, recycling and testing of heating and air conditioning systems of over the road vehicles. Theory of operation, nomenclature, identification, safety and environmental impact factors of air conditioning. Also covers heating and ventilation systems.</td>
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<tr>
<td>TSTG 220</td>
<td>Workplace Skills</td>
<td>3</td>
<td>Employment skills encompassing leadership, goal setting, personal traits, conflict resolution, quality, time management, life-long learning, written and oral communication, and customer relations.</td>
<td>Sophomore status or permission of instructor.</td>
</tr>
<tr>
<td>TSTG 240</td>
<td>Job Shop</td>
<td>4</td>
<td>Application of workplace skills in a controlled shop environment, through the use of real-life lab work projects, performed in house, when internships or co-op opportunities are not available.</td>
<td>Sophomore status or permission of instructor.</td>
</tr>
<tr>
<td>TSTG 270</td>
<td>Practical Applications</td>
<td>4</td>
<td>Designed to increase student competency through the use of internships or co-op training and real-life shop experiences in their chosen area specialty.</td>
<td>Permission of instructor.</td>
</tr>
<tr>
<td>TSTG 275</td>
<td>ABS Diagnostics</td>
<td>2</td>
<td>Introduction to anti-lock brake systems to include: ABS types and operation, diagnostics, traction control, stability control, regenerative braking and active braking systems.</td>
<td>TSTC 100, TSTC 130, TSTC 160, TSTC 171, and TSTG 175.</td>
</tr>
<tr>
<td>TSTG 296</td>
<td>Topics</td>
<td>1 or 2</td>
<td>Course may be taken multiple times up to maximum of 15 credit hours.</td>
<td>Permission of instructor.</td>
</tr>
</tbody>
</table>
UNIVERSITY COLLEGE (UNIV)

UNIV 096 Gearing Up For College 1-3 Credits

UNIV 100 College Success Skills 1 Credit
Introduction to fundamental learning skills, first semester management strategies and campus resources specific to the higher education environment. Emphasized development of basic practical competencies necessary for successful completion of entry level university courses.

UNIV 101 First Year College Success 2 Credits
Assistance and guidance for students in maximizing their potential for success in college by promoting their academic growth. Emphasizes test taking, reading techniques, note taking, and memory as well as the following: critical thinking, stress management, utilization of campus resources, goal setting, relationship of academic planning to career goals, career exploration and other topics.

UNIV 102 Community College Success 2 Credits
Introduction to fundamental learning skills and first semester learning and management strategies, specifically for students engaged in career and technical education pathways.

UNIV 103 Community College Success II 1 Credit
Continued support strategies for students in the second semester of college.
Prerequisites: UNIV 102.

UNIV 105 Competency Portfolio Development 1 Credit
Required preparation of learning portfolio for assessment of academic credit. Will aid in organization and completion of portfolio for prior learning experiences; workshop credit is unrelated to final approval of portfolio for specific course credit.

UNIV 196 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

UNIV 201 Theory and Practice of College Peer Tutoring 3 Credits
General and specific training for college level peer tutoring. Readings, discussion, experiential exercises expose students to contemporary learning theories, learning enhancement techniques, and effective applications to group and individual learning situations. Supervised tutoring practicum applies theories and concepts to actual tutoring sessions.
Prerequisites: Permission of instructor; 2.5 GPA; recommendation by instructor in subject area.

UNIV 202 Sophomore Year Experience 2 Credits
Exploration of career and academic interests. Emphasis on self-discovery, resume building, making connections with faculty and community members, and solidification of academic plans. Includes a follow-up opportunity to job shadow and participate in service learning.
Prerequisites: Sophomore level standing, permission of instructor.

UNIV 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.
WATER QUALITY MGMT (WQMS)

WQMS 100 Introduction to Water Quality3 Credits
Introduction to the water and wastewater treatment field and the various applied science concepts that are used to operate, maintain and monitor water quality; includes the hydrological cycle, water sources, hydraulics, ecosystems, pollution, water chemistry, water calculations, microbiological aspects of water and water quality control.

WQMS 105 Specific Calculations for Water Quality Management4 Credits
An in-depth study of the calculations associated with water and wastewater treatment; includes dimensional analysis, manipulation of conversation factors, geometric figures, velocities, detention time, surface loading, filtration and backwash rates, porosity, weir overflow rates, efficiencies, weight of dry solids, sludge pumping, settleable solids, volatile solids, mean cell residence times, settleability, disinfection and chemical dosage as relating to trickling filters, ponds, RBC, and activated sludge.

WQMS 106 Mechanical/Physical Treatment3 Credits
Introduction to wastewater treatment; includes the technician and their responsibility, effects of waste discharges, natural cycles, solids in waste discharges, natural cycles, solids in wastewater, NPDES permits, collection systems, pretreatment, primary treatment, secondary treatment, advanced treatment, flow measuring, solids handling and disposal.

WQMS 109 Water Distribution3 Credits
Purpose, selection and location of water storage facilities and the operation and maintenance of related equipment; includes storage facilities and capabilities, booster pumps, water mains and appurtenances, joints, pipe protection and installation, valves, fittings, hydrants, quality standards, contaminants and degradation inspection and monitoring, system troubleshooting, surveillance, cross connections, pressure main breaks, corrosion control, disinfection and emergency planning.

WQMS 110 Mechanical/Physical Treatment3 Credits
Coagulation, flocculation, sedimentation, filtering, corrosion and taste and odors; includes descriptions, operating procedures, associated calculations, start-up and shut down procedures, laboratory tests, troubleshooting, maintenance, safety and records.

WQMS 116 Conventional Surface Water Treatment3 Credits
WQMS 124 Water Certification Review for Class C & D3 Credits
Preparation of students for the operator’s certification test in water at the C and D level. Topics include water principles, mathematics, hydraulics, water filtration, chemical treatment, source control, basic operations, Colorado Primary Drinking Water Regulations, housekeeping, and laboratory analysis.

WQMS 118 Wastewater Collection Systems3 Credits
Exploration of all applied safety aspects in the water and wastewater industry. Topics include development of safety policies and programs, job safety orientation, driving practices, CPR/First Aid, Permit Required Confined Spaces (PRCS), air monitoring and displacement requirements, treatment equipment, construction vehicles/equipment, chlorine and other chemical handling, and security and safety standards as determined by the Bioterrorism Preparedness Act of 2002.

WQMS 127 Water Quality Utility Management3 Credits
Introduction to the fundamental business practices that are utilized in managing a water or wastewater utility. Topics include the functions of a manager, planning, organizing, staffing, public relations, financial management, regulatory compliance, safety, and operations and maintenance from a management perspective.

WQMS 126 Safety and Security Systems3 Credits
Preparation of students for the operator’s certification test in wastewater at the C and D level. Topics include wastewater principles, mathematics, hydraulics, conventional treatment of wastewater, wastewater sedimentation, Colorado Water Quality Control Act, biological treatment of wastewater, effluent standards for wastewater, sludge handling and disposal, disinfection, pumps, safety, housekeeping, and laboratory analysis.

WQMS 120 Water Quality Management for Class C & D3 Credits
Preparation of students for the operator’s certification test in water at the C and D level. Topics include water principles, mathematics, hydraulics, water filtration, chemical treatment, source control, basic operations, Colorado Primary Drinking Water Regulations, housekeeping, and laboratory analysis.

WQMS 120 Water Quality Small Water Systems3 Credits
Introduction to the practical, hands-on aspects of the safe and effective operation and maintenance of small water system collection, treatment, and disposal. Topics include the safe operation and maintenance of small water treatment plants, lift stations, and other facilities.

WQMS 121 Drinking Water Regulations4 Credits
Knowledge and skills to establish a compliance program for a water treatment facility using ground water, surface water, or ground water influenced by surface water sources. The student will learn all regulatory requirements for microbiological and chemical contamination (organic, inorganic, and radio) for monitoring and reporting operations.
**WQMS 216 Biological and Bacteriological Water Quality Analyses**

*4 Credits*

Exploration of microorganisms associated with all phases and concerns of water and wastewater treatment including bacteria, protozoa, and algae. Topics include: microorganisms used in treatment, pathogenic indicators, regulations, health hazards and laboratory safety. Laboratory work involves media preparation, coliform testing, standard plate count, algae identification, activated sludge examination, volatile acids/alkalinity and biomonitoring.

**WQMS 224 Water Certification Review for Class A & B**

*3 Credits*

Exploration of topics found on the state levels A and B certification exams. Topics include complex treatment techniques, administration and management, which include: recarbonation systems, lime and soda ash chemical softening, ion exchange, reverse osmosis systems, membrane filtration, corrosion control systems using sequestering agents, fluoridation techniques, and chemical taste and odor control techniques, as well as advanced operational mathematics.

**WQMS 225 Wastewater Certification Review for Class A & B**

*3 Credits*

Exploration of topics found on the state levels A and B certification exams. Topics include complex treatment techniques, administration and management, which include: activated sludge processes, trickling filters, rotating biological contactors, digesters and Advanced Waste Treatment (AWT) systems. The student will learn advanced mathematical calculations to perform waste flow, solids volume percent concentrations, and Mean Cell Residence Times (MCRT).
WELDING (WELD)

WELD 110 Shielded Metal Arc Welding 4 Credits
Study and skill development of safe practices, welding theory, and principles of Shielded Metal Arc Welding equipment and process. SMAW fillet welds in all positions on plate.

WELD 111 Shielded Metal Arc Welding 24 Credits
Study and skill development of safe practices, welding theory, and principles of Shielded Metal Arc Welding equipment and process. SMAW groove welds in all positions on plate. Pipe welding and stainless steel plate tests may be included.
Prerequisites: WELD 110.

WELD 114 Oxy-Fuel Welding & Brazing 2 Credits
Study and skill development of safe practices, welding theory, and principles of Oxy-Fuel equipment and process. Oxy-Fuel groove and fillet welding and brazing will be included.

WELD 117 Oxy-Fuel and Plasma Arc Cutting 2 Credits
Study and skill development of safe practices, theory, and principles of cutting equipment used in fabrication. Oxy-Acetylene Cutting (OAC), Plasma Arc Cutting (PAC), and other cutting processes applied to sheet metal, plate, piping, and other materials. Other uses of power tools and hand tools to be included.

WELD 133 Fabrication & Blueprints for Welders 4 Credits
Study and skill development of metal fabrication methods. Lecture and laboratory. Measuring tools and techniques, welding shop mathematics, blueprint reading, welding symbols, sheet metal and steel plate fabrication project layout methods applied. Basic blacksmithing techniques and ornamental iron layout included. Structural and pipe connection layout methods introduced.

WELD 151 Introduction to Welding 3 Credits
Introductory welding course. Lecture and laboratory. Safe practices, theory, principles, and use of welding and cutting equipment. Oxy/Fuel, Plasma Arc Cutting, Shielded Metal Arc Welding, Gas Metal Arc Welding, Flux Cored Arc Welding with sheet metal and carbon steel plate in most positions. Gas Tungsten Arc Welding may be included.

WELD 201 Gas Metal Arc Welding 4 Credits
Study and skill development of safe practices, welding theory, and principles of Gas Metal Arc Welding equipment and process. GMAW fillet and groove welds with short circuit transfer and axial spray transfer will be included. GMAW pulse, aluminum, and stainless steel may be included.

WELD 203 Flux Cored Arc Welding 4 Credits
Study and skill development of safe practices, welding theory, and principles of Flux Cored Arc Welding equipment and process. FCAW fillet and groove welds with self-shielded and gas-shielded processes will be covered.

WELD 230 Gas Tungsten Arc Welding 4 Credits
Study and skill development of Gas Tungsten Arc Welding (GTAW/TIG). Lecture and laboratory. Safe practices, theory, principles and use of GTAW equipment. GTAW with sheet metal and carbon steel plate in most positions. Also, GTAW stainless steel and aluminum sheet metal in most positions. A.W.S. testing.

WELD 240 Pipe Welding 4 Credits
Study and skill development of safe practices, welding theory, and principles of pipe welding using SMAW, GMAW, FCAW, and GTAW processes. AWS, API, and ASME weld procedures will be examined.
Prerequisites: WELD 111, WELD 203, and WELD 230

WELD 261 Testing and Inspection 3 Credits
Advanced classroom course on testing and weld inspection. Destructive and non-destructive weld testing methods applied. AWS bridge and structural codes, API cross country pipe welding codes, ASME pressure vessel and pressure piping codes. (On demand)

WELD 270 Practical Applications 3 Credits
Exploration of a welding project course. Classroom discussions and directions with laboratory objectives. This class gives welding students the opportunity to apply techniques and knowledge gained from previous welding courses. With the guidance and advice of the instructor, students will fabricate a welding project of their choice.

WELD 275 Automation 4 Credits
Study and skill development of safe practices, welding theory, and principles of robotic welding and CNC plasma cutting equipment and processes. Basic programming, setup, and systems integration will be included. Other automation equipment and processes may be included.
Prerequisites: WELD 117 and WELD 201.

WELD 295 Independent Study 1 or 2 Credits
Course may be taken multiple times up to maximum of 6 credit hours.

WELD 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

WELD 299 Internship 1-14 Credits
Course may be taken multiple times up to maximum of 6 credit hours.
WILDLAND FIRE MGMT (FSWM)

FSWM 100 Introduction to Wildland Fire Basic Fire Guard School 4 Credits
Instruction in the primary environmental factors that affect the start and spread of wildfire and recognition of potentially hazardous situations. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training classes: S-110, S-130, S-190, I-100, L-180.

FSWM 103 Expanded Dispatch Recorder 1 Credit
The structure of an expanded dispatch organization and how to effectively perform within that organization. Students will develop a working knowledge of the purpose and process of completing the resource order and other dispatch forms and learn established dispatch procedures. This course consists of the curriculum and activities included in the National Wildfire Group Firefighting Training classes: D-110.

FSWM 1141 Introduction to Incident Information 2 Credits
Cognitive material and skills needed to become type 3 information officers (IOF3). The course covers all aspects of establishing and maintaining an incident information operation, communicating with internal and external audiences to handling special situations. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training classes: S-203.

FSWM 1142 Portable Pumps and Water Use 2 Credits
Introduction to the three areas of supply, delivery, and application of water. Students will be required to demonstrate their knowledge of correct water use, basic hydraulics, and equipment care. Modules support required set up, operation, and maintenance of pump equipment. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training classes: S-211.

FSWM 1143 Wildfire Chain Saws 2 Credits
Introduction to the function, maintenance and use of internal combustion, engine-powered chain saws and their tactical wildland fire application. Modules support entry-level training for firefighters with little or no previous experience in operating a chain saw and provides hands-on cutting in surroundings similar to fireline situations. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training classes: S-212.

FSWM 1144 Fire Operations in the Wildland/Urban Interface 2 Credits
Emphasizes the tactical decisions made by structure and wildland firefighters when confronting fire that threatens life, property, and improvements in the wildland/urban interface. Instructional units include interface awareness, size up, initial strategy and incident action plan, structure triage, structure protection tactics, incident action plan assessment and update, follow up and public relations, and firefighter safety in the interface. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training class: S-215.

FSWM 130 2 Credits
FSWM 165 Ignition Operations 2 Credits
Training in the functional roles and responsibilities connected with firing operations. The course covers planning, ignition procedures and techniques, and equipment applicable to wildland and prescribed fire. This course also addresses the role of the ignition specialist or firing boss as the organization manages escalation from a non-complex to a complex situation. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training class: S-234.

FSWM 148 Status/Check-In Recorder 1 Credit
Introduces students to the tools and techniques used to perform duties of status check-in recorder (SCKN). The course provides an overview of what a student can expect if dispatched to an incident. Each student will need access to a computer that has the most current incident automation software. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training Program class S-248.

FSWM 151 Basic Air Operations 1 Credit
Covers aircraft types and capabilities, aviation management and safety for flying in and working with agency aircraft, tactical and logistical uses of aircraft, and requirements for helicopter take-off and landing areas. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training class: S-270.

FSWM 152 Helicopter Crew Member 2 Credits
Proficiency in all areas of the tactical and logistical use of helicopters to achieve efficiency and standardization. Topics include: aviation safety, aircraft capabilities and limitations, aviation life support equipment, aviation mishap reporting, pre-flight checklist and briefing/debriefing, aviation transportation of hazardous materials, crash survival, helicopter operations, and helicopter field exercise. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training Program class S-271.

FSWM 153 Intermediate Wildland Fire Behavior 2 Credits
Prepares the prospective supervisor to undertake safe and effective fire management operations. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training class: S-290.

FSWM 155 Initial Attack Incident Commander/Basic Incident Command System 2 Credits
Required training for an ICT4 qualification. Course topics include Incident Command organization, functions and responsibilities, readiness, mobilization, size-up, planning, resource ordering, deployment, objectives, strategy, tactics, containment, administrative responsibilities, and post-incident evaluation. This course consists of the curriculum in the National Wildfire Coordinating Group Firefighting Training classes S-200 and I-200.

FSWM 156 Firefighter Type 1 and Fire Line Leadership 2 Credits
Required training for Firefighter Type 1 qualification. Topics include fireline reference materials, communications, tactical decision making, leadership values and principles, transition challenges for new leaders, situational leadership, team cohesion factors, and ethical decision making. This course consists of the curriculum in the National Wildfire Coordination Group S-131 and L-280 courses.

FSWM 158 Driving for the Fire Service 2 Credits
Familiarizes the students with the safety and regulations governing the driving practices and vehicle operations expectations in wildfire situations. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training program class S-216.
FSWM 162 Advanced Firefighter Position Task Book 3 Credits
Documentation processes for the recording of routine and special activities in the field. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training program to include not less than 135 hours of documented activities.

FSWM 196 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

FSWM 200 Extended Attack Incident Commander 1 Credit
Covers the training needs of the incident commander type 3 (CT3). The six instructional units cover Information Gathering, Planning, Supporting Organization, Operations, Transitioning, and Demobilization/Administrative Requirement. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training program class S-300.

FSWM 204 Medical Unit Leader 1 Credit
Covers the skills and information needed to perform in the role of medical unit leader (MEDL). This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training program class S-359.

FSWM 205 Introduction to Wildland Fire Behavior Calculations 2 Credits
Covers the information and skills required for effective fire behavior prediction. This course introduces fire behavior calculations by manual methods, using nomograms. The student gains an understanding of the determinants of fire behavior through studying input (wind, slope, fuels, and fuel moisture). Students also learn how to interpret fire behavior output. Local and regional environment differences are stressed. This course consists of the curriculum and activities included in the National Wildfire Coordinating Group Firefighting Training program class S-390.

FSWM 278 Supervised Work Experience 1-3 Credits

FSWM 296 Topics 1-3 Credits
Course may be taken multiple times up to maximum of 15 credit hours.

FSWM 299 Internship 1-3 Credits
Course may be taken multiple times up to maximum of 6 credit hours.
GLOSSARY OF TERMS

Academic Probation
The failure of a student to meet the standards required for good standing. Student will be placed on academic probation for one semester and must maintain a 2.00 GPA or higher to avoid academic suspension.

Academic Renewal
Following an absence from the college of at least five years, a student may apply for “academic renewal.” If approved, none of the course credits and grades earned at Colorado Mesa University prior to the five-year minimum absence will be used for meeting graduation requirements or in determining the student’s grade point average.

Academic Residency
A specified minimum number of credit hours that must be earned at Colorado Mesa University to receive a degree.

Academic Suspension
Denial of all registration privileges for a specified period of time (minimum one full semester) because of failure to meet minimum academic standards. Suspended students must be readmitted to the college before continuing enrollment.

Academic Term
A period of instruction. During the fall and spring, the term is a standard 15-week semester. During the summer, various length periods of instruction are offered. The term regular semester refers to fall or spring semester.

Academic Year
The traditional cycle of academic terms: fall and spring.

Accreditation
Certification that the university or program has met established standards and is recognized by appropriate accrediting agencies.

Add/Drop
A period of time when students can alter class schedules by adding or dropping classes or changing sections of a course. Add/drop deadlines are published on the Registrar’s Office Important Dates (https://www.coloradomesa.edu/registrar/dates.html) website.

Admitted
Status of students who have applied and have been accepted to the university.

Associate’s Degree
Degree awarded upon satisfactory completion of a prescribed, planned program of approximately 60 credit hours. This can be completed in two years of study with an average of 15 semester hours per semester in the fall and spring terms.

Audit
A registration status which allows a student to attend and to participate in a course without benefit of a grade or academic credit. The “audit” status must be recorded in the Registrar’s Office within the add/drop deadlines.

Baccalaureate Degree
Bachelor’s degree: the traditional undergraduate degree. Awarded for completion of an undergraduate program of study, usually of 120 semester hours. This can be completed in four years of study with an average of 15 semester hours per semester in the fall and spring terms. Bachelor’s degrees are comprised of essential learning courses, a major, and elective courses.

Capstone
A course, project, paper, presentation, event, or exhibit that must be completed, usually in the senior year, before graduation. A capstone demonstrates in an integrated way everything that has been learned while pursuing a particular major.

College Opportunity Fund (COF)
The method of funding state tax dollar support for students enrolled in Colorado public higher education via a voucher. Implemented in fall 2005, qualifying students create an account at the College Access Network into which the voucher is deposited and, upon registration by the student at a participating institution, then is transferred to the college.

Concentration
An area of interest within a major that is defined by a group of courses. Number of hours will vary by major. Concentrations are generally associated with 4 year programs (BA, BBA, BS, etc).

Concurrent Student
A high school student who is registered for a university class.

Contact Hours
The number of weekly hours student meets in a class, lab, studio, clinical, or class/lab.

Corequisite
Course(s) that must be taken concurrently with one or more additional courses. Subject matter often is similar or complementary.

Course Levels
The numbering system of courses:

<table>
<thead>
<tr>
<th>Category</th>
<th>Numbering System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Developmental/Preparatory</td>
<td>099 and lower</td>
</tr>
<tr>
<td>Lower Division</td>
<td>100 - 199 Freshman</td>
</tr>
<tr>
<td></td>
<td>200 - 299 Sophomore</td>
</tr>
<tr>
<td>Upper Division</td>
<td>300 - 399 Junior</td>
</tr>
<tr>
<td></td>
<td>400 - 499 Senior</td>
</tr>
<tr>
<td>Graduate</td>
<td>500 and above</td>
</tr>
</tbody>
</table>
Course Load
The total number of semester hours registered for in a given academic term.

Cumulative Grade Point Average
An average GPA calculated by dividing the total number of quality points/grade points obtained (credit hours X grade points) by the number of credit hours attempted during all academic sessions at Colorado Mesa University. Grades from other institutions are not included in the calculation.

Dean's List
Recognition of students who achieve a grade point average of between 3.50 and 3.99 while enrolled for a minimum of 12 semester hours in a fall or spring semester.

Degree
A title which the university confers on a student who has satisfactorily completed a required course of study. Degree requirements are established by the university and departments, and are approved by the university's faculty, administration, and authorized by the Colorado Commission on Higher Education. The university offers degrees at three levels: associate, baccalaureate, and master's.

Degree Category
One of three degree categories offered at Colorado Mesa University that may differ in lower division requirements beyond essential learning. These categories include the Bachelor of Arts (BA), Bachelor of Science (BS) and Professional, Technical or Other Programs (PTO).

Discipline
A recognized subject area or field of study within which courses are structured.

Distance Learning
Courses offered for credit by an alternative means of delivery for students who need university credit but are unable to travel to campus on a regular weekly basis (e.g. telecourses, interactive video, or online).

Double Major
Completing the requirements of more than one major within the same degree designation (e.g., a Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration). A student could earn one baccalaureate degree with multiple majors (e.g., Bachelor of Arts with a double major in Psychology and Sociology). Students must meet all the requirements for the degree and for each major.

Dual/Double Baccalaureate Degree
Completing the requirements of more than one major with different degree designations (e.g., a Bachelor of Arts, Bachelor of Science, Bachelor of Business Administration). A student earning two baccalaureate degrees (e.g., Bachelor of Arts in History and a Bachelor of Science in Mathematics) must meet all the requirements for each degree, each major, and additional requirements found in the Requirements for Undergraduate Degrees (p. 93) under the "Second Baccalaureate Degree".

Earned Hours
Credit hours earned for college-level courses (numbered 100 and above) with a passing grade.

Electives
Courses selected at a student's discretion. Electives may be partially restricted, such as a selection from a specified group of courses identified to fulfill a particular requirement or they may be "free" electives which may be selected from any course for which the student has proper prerequisites. Electives provide opportunities for students to pursue personal interest and to gain general knowledge.

Emphasis
An area of interest within a major that is defined by a group of courses. Number of hours will vary by major. Emphasises are generally associated with 2-year programs (AA, AS, etc.).

Enrollment
Registration for course work and payment of fees constitutes official enrollment. For financial aid purposes, a student must enroll for 12 credit hours to be classified full-time; for other purposes, the minimum may be higher. For graduate students, a six-hour load is typical for full-time classification.

Essential Learning
A university-wide requirement of basic courses that form the foundation of all undergraduate degree programs. CMU's Essential Learning requirement was formerly named General Education.

Essential Learning Capstone
The baccalaureate 4 semester credit hour graduation requirement consisting of corequisite courses Maverick Milestone (3 hours) and Essential Speech (1 hour). This interdisciplinary requirement is designed to allow students to transition between the lower division Essential Learning Core courses and their upper-division major courses. Must be completed in the timeframes of 45 and 75 earned credit hours.

Essential Learning Core
Basic courses providing students with a foundation in the arts and sciences. The Essential Learning Core consists of 31 semester credit hours across the following disciplines: English (6 hours), Mathematics (3 hours), History (3 hours), Humanities (3 hours), Social and Behavioral Sciences (6 hours), Fine Arts (3 hours), and Natural Sciences (7 hours).

Essential Speech
A 200-level, 1 semester credit hour course which provides students with the tools for verbally presenting ideas and information learned in the corequisite Maverick Milestone course. The Maverick Milestone and Essential Speech corequisite courses comprise the Essential Learning Capstone requirement for baccalaureate students. See Essential Learning.

General Education
Former designation of CMU's Essential Learning curriculum.
General Educational Development (GED) Diploma
Award granted upon passing tests that measure student learning normally acquired by completing a typical high school program of study.

Good Standing
A sliding scale of academic status achieved by students for semester hours attempted. Determines eligibility of students to continue to register for university course work.

Grade Improvement
Repeat of any course more than once for academic credit at Colorado Mesa University done so only for “grade improvement.” Academic credit is awarded only once and the best grade received is the one used to compute the student’s cumulative grade point average and to fulfill requirements for the degree. Some exceptions to this policy apply.

Grade Point Average (GPA)
A measure of a student’s academic performance which is computed by dividing credit hours attempted into grade points earned to determine the mean average grade of all courses taken for credit. Does not include courses taken as pass/fail.

Graduate Certificates
Contain graduate level (5xx-7xx) courses. A student must be admitted as a graduate student to attempt a graduate certificate.

Graduate Student
A student who has earned a baccalaureate degree and who is pursuing a master’s degree program.

Graduation Honors
Recognition of graduating students who meet the following academic criteria:

• With Distinction - Associate degree graduates with cumulative grade point averages of 3.50 to 3.74.
• With High Distinction - Associate degree graduates with cumulative grade point averages of 3.75 to 4.00.
• Cum Laude - Baccalaureate degree graduates with cumulative grade point averages of 3.50 to 3.74.
• Magna Cum Laude - Baccalaureate degree graduates with cumulative grade point averages of 3.75 to 3.89.
• Summa Cum Laude - Baccalaureate degree graduates with cumulative grade point averages of 3.90 to 4.00.

Higher Education Admission Requirements (HEAR)
(also referred to as the pre-collegiate curriculum)
Requirements established by the Colorado Commission on Higher Education for students graduating from high school in spring 2008 or later and seeking admission to a Colorado public four-year college or university.

Independent Study
An upper-division course designated by a special number within a discipline. Allows a student to pursue an individual project independently, for credit, under the supervision of an instructor. Requires consent of the instructor.

Leveling Courses
A set of equivalent courses for graduate students who have not completed specific undergraduate courses prior to beginning graduate study.

Lower Division Course
A course that carries a 100 - 199 or 200 - 299 number.

Major
A set of required courses from one or more departments in a subject chosen as the student’s principal field of study. Designed to provide students with the knowledge, skills, and experiences necessary to pursue a specific career and/or advanced study.

Master's Degree
A post-baccalaureate degree. All master’s degree candidates must maintain a 3.00 GPA to remain in good academic standing.

Matriculation
Enrollment as an admitted, degree-seeking student.

Maverick Milestone
A 200-level interdisciplinary, topics-oriented, writing-intensive course designed to help students develop the ability to approach problems and evaluate ideas using more than one set of intellectual tools. This 3 semester credit hour course and its 1 semester credit hour corequisite Essential Speech comprise the Essential Learning Capstone requirement for baccalaureate students. See Essential Learning.

Minor
An officially-recognized secondary field of study requiring fewer units than the major. A minor must be in an approved subject area and is less comprehensive than the major.

Multiple Concentrations
Completing the requirements of more than one concentration within the same major (e.g., Bachelor of Arts in Mass Communication with a double concentration in Print Media and Public Relations). Students must meet all the requirements for the degree, major, and each concentration.

Prerequisite
Requirement(s) that must be taken and passed before a higher level course may be taken. Sometimes, permission of the instructor or another requirement (such as graduate status) may be a prerequisite for a course. Prerequisites may include: (1) Course or courses that must be completed before a higher-level course may be taken, sometimes allowed by the instructor to be taken concurrently; (2) Courses outside the major department that must be completed before admission to the major; (3) Successful completion of high school courses (as in languages); (4)
Minimum SAT or ACT scores or sub-scores; (5) Minimum placement test scores; or (6) Acceptance into a certain program.

**President's List**
Recognition of students who achieve a grade point average of 4.00 while enrolled for a minimum of 12 semester hours in a fall or spring semester.

**Priority Registration**
Designated period of early registration for currently enrolled students.

**Professional Certificate**
A Professional Certificate contains primarily upper division (3xx-4xx) courses. For a student to attempt a Professional Certificate after the student has earned a baccalaureate degree, the student must be admitted to study as a post-baccalaureate student or as a graduate student.

**Program Sheet**
A document listing degree requirements for graduation.

**Quality Points**
The number points attributed to a grade (A=4, B=3, C=2, etc.) times the number of credit hours in the course.

**Registrar**
Office responsible for registering students into classes, maintaining academic records, and certifying degree requirements for graduation.

**Student Classification**
Student level based on the number of semester hours successfully completed as follows:

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<th>Semester Hours Completed</th>
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<td>Freshman</td>
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<tr>
<td>31 - 60</td>
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<tr>
<td>61 - 90</td>
<td>Junior</td>
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<tr>
<td>91 - above</td>
<td>Senior</td>
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**Technical Certificate**
Award for the completion of technical coursework designed to train students for specific skills required for employment in various vocational occupations.

**Topics Courses**
Courses offered from time to time that contain material of special interest within a specific discipline not considered elsewhere in the curriculum. Prerequisites vary with course material and may require consent of the instructor.

**Transfer Credit**
Course work completed at another institution that is accepted for credit toward a degree at the university. Grades from these courses are not included in calculation of a student's cumulative GPA.

**Undergraduate**
A student working toward a technical certificate, professional certificate, associate degree, or baccalaureate degree.

**Upper Level Course**
A course that carries a 300 - 399 or 400 - 499 number.
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