ENGLISH COMPOSITION I-GTCO1
ENGL 111

ENGLISH COMPOSITION II-GTCO2
ENGL 112

CALCULUS I-GT-MA1
MATH 151

To print or save an overview of this program's information, including the program description, learning outcomes, requirements, suggested course sequencing (if applicable), and advising and graduation information, scroll to the bottom of the left-hand navigation menu and select “Print Options.” This will give you the options to either “Send Page to Printer” or “Download PDF of This Page.” The “Download PDF of This Page” option prepares a much more concise presentation of all program information. The PDF is also printable and may be preferable due to its brevity.

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 I-GTCO1</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 112</td>
<td>English Composition II-GTCO2</td>
<td>3</td>
</tr>
<tr>
<td>MATH 151</td>
<td>Calculus I-GT-MA1</td>
<td>2</td>
</tr>
</tbody>
</table>
Environmental Geology, Geosciences (BS)

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 3

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 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

Code Title Semester Credit Hours

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
(15 semester hours, must earn a grade of "C" or better in each course.)

Code Title Semester Credit Hours

CHEM 131 General Chemistry I-GTSC1 4
CHEM 131L General Chemistry Laboratory I-GTSC1 1
Select one of the following: 1

PHYS 111 General Physics-GTSC1
& 111L and General Physics Laboratory-GTSC1
PHYS 131 Fundamental Mechanics-GTSC1
& 131L and Fundamental Mechanics Laboratory-GTSC1
STAT 200 Probability and Statistics-GTMA1 3
MATH 151 Calculus I-GTMA1 2

Total Semester Credit Hours 15

1 Either PHYS 111/PHYS 111L or PHYS 131/PHYS 131L may be taken for credit, but not both.
2 This is a 5 semester credit hour course. 3 credits apply to the Essential Learning Requirements and 2 credits apply to Foundation Courses.

Program Specific Degree Requirements
(58 semester hours, must earn a grade of "C" or better in each course)

Code Title Semester Credit Hours

Core Courses
Select one of the following sets of courses: 1
GEOL 111 Principles of Physical Geology-GTSC1 & 111L and Principles of Physical Geology Laboratory-GTSC1
GEOL 113 Field-Based Introduction to Physical Geology-GTSC1 & 113L and Field-Based Introduction to Physical Geology Laboratory-GTSC1
GEOL 112 Principles of Historical Geology-GTSC1 3
GEOL 112L Principles of Historical Geology Laboratory-GTSC1 1
GEOL 202 Introduction to Field Studies 3
GEOL 204 Computer Applications in Geology 3
GEOL 301 Structural Geology & 301L and Structural Geology Laboratory
GEOL 331 Crystallography and Mineralogy 3
GEOL 331L Crystallography and Mineralogy Laboratory 1
GEOL 402 Applications of Geomorphology 3
GEOL 402L Applications of Geomorphology Laboratory 1
GEOL 444 Sedimentology and Stratigraphy 3
GEOL 444L Sedimentology and Stratigraphy Laboratory 1
GEOL 480 Summer Field Camp 6
GEOL 490 Seminar 3

Required Geology Courses
GEOL 250 Environmental Geology 3
GEOL 355 Basic Hydrology 3
GEOL 415 Introduction to Ground Water 3
GEOL 415L Introduction to Ground Water Laboratory 1

Total Semester Credit Hours 49

Code Title Semester Credit Hours

Restricted Electives 2
Select 9 semester hours from the following list: 2

1

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.

Select electives
Total Semester Credit Hours 10

Suggested Course Plan
First Year
Fall Semester
ENGL 111  English Composition I-GTCO1 3
MATH 151  Calculus I-GTMA1 5
Select one of the following:

GEOL 111  Principles of Physical Geology-GTSC1 & 111L and Principles of Physical Geology Laboratory-GTSC1
GEOL 113  Field-Based Introduction to Physical Geology-GTSC1 & 113L and Field-Based Introduction to Physical Geology Laboratory-GTSC1

Essential Learning - Humanities 3

Spring Semester
GEOL 112  Principles of Historical Geology-GTSC1 & 112L and Principles of Historical Geology Laboratory-GTSC1
ENGL 112  English Composition II-GTCO2 3

Essential Learning - History 3

Essential Learning - Social and Behavioral Sciences 3
KINE 100  Health and Wellness 1

Second Year
Fall Semester
GEOL 202  Introduction to Field Studies 3
GEOL 250  Environmental Geology 3
CHEM 131  General Chemistry I-GTSC1 & 131L and General Chemistry Laboratory I-GTSC1
Select one of the following:

PHYS 111  General Physics-GTSC1 & 111L and General Physics Laboratory-GTSC1
PHYS 131  Fundamental Mechanics-GTSC1 & 131L and Fundamental Mechanics Laboratory-GTSC1

Total Semester Credit Hours 16

Spring Semester
GEOL 204  Computer Applications in Geology 3
STAT 200  Probability and Statistics-GTMA1 3

Essential Learning - Social and Behavioral Sciences 3
Essential Learning - Natural Science 3

ESSL 290  Maverick Milestone 3

ESSL 200  Essential Speech 1

Third Year
Fall Semester
GEOL 301  Structural Geology & 301L and Structural Geology Laboratory
GEOL 331  Crystallography and Mineralogy & 331L and Crystallography and Mineralogy Laboratory
GEOL 355  Basic Hydrology 3

Essential Learning - Natural Science with Lab 4

Total Semester Credit Hours 15

Spring Semester
Essential Learning - Fine Arts 3
Restricted Electives 4
General Electives 6

Total Semester Credit Hours 13

Fourth Year
Fall Semester
GEOL 402  Applications of Geomorphology & 402L and Applications of Geomorphology Laboratory

Restricted Electives 5
General Electives 4

Total Semester Credit Hours 13

Spring Semester
GEOL 415  Introduction to Ground Water & 415L and Introduction to Ground Water Laboratory
KINA Activity 1
GEOL 444  Sedimentology and Stratigraphy & 444L and Sedimentology and Stratigraphy Laboratory
GEOL 490  Seminar 3

Total Semester Credit Hours 12
Advising and 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 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.