

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, visit Career Services' *What to Do with a Major?* (<https://www.coloradomesa.edu/career/students/explore/major.html>) resource.

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 specialized knowledge/applied learning, quantitative

fluency, communication fluency, critical thinking, personal and social responsibility, and information literacy. 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.

Code	Title	Semester Credit Hours
English ¹		
ENGL 111	English Composition-GTCO1	3
ENGL 112	English Composition-GTCO2	3
Mathematics ¹		
MATH 110	College Mathematics-GTMA1	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 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

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

Code	Title	Semester Credit Hours
STAT 200	Probability and Statistics-GTMA1	3
BIOL 209	Human Anatomy and Physiology	3
BIOL 209L	Human Anatomy and Physiology Laboratory	1
BIOL 210	Human Anatomy and Physiology II	3
BIOL 210L	Human Anatomy and Physiology II Laboratory	1
BIOL 241	Pathophysiology	4
Total Semester Credit Hours		15

Program Specific Degree Requirements

(25 semester hours, must maintain a 2.00 cumulative GPA or higher in coursework in this area.)

Code	Title	Semester Credit Hours
Core Courses		
RADS 452	Sectional Anatomy	3
RADS 453	Advanced Patient Care	3
RADS 462	Leadership and Management	3
RADS 463	Information Literacy in Radiologic Sciences	3
Specialization		
Select one of the following options:		5
RADS 460 & RADS 470	Principles of Magnetic Resonance Imaging and Applied Magnetic Resonance Imaging	
RADS 461 & RADS 471	Principles of Computed Tomography and Applied Computed Tomography	
RADS 480	Clinical Specialization I	4
RADS 490	Clinical Specialization II	4
Bachelor of Applied Science Core		
36 Semester Hours taken as part of a state approved Associate of Applied Science degree		36
Total Semester Credit Hours		61

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.

Code	Title	Semester Credit Hours
Select electives		Hours vary as needed

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.