



2017-2018 PROGRAM REQUIREMENTS

Degree: Bachelor of Science
Major: Radiologic Sciences

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).

Advising Process and DegreeWorks

This document 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.

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.
- 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.

PROGRAM-SPECIFIC DEGREE REQUIREMENTS

- C or higher in coursework toward foundation courses.
- C or higher in coursework toward the major content area.

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 (6 semester hours, must receive a grade of "C" or better and must be completed by the time the student has 60 semester hours.)

- ENGL 111 - English Composition (3)
- ENGL 112 - English Composition (3)

Mathematics (3 semester hours, must receive a grade of "C" or better, must be completed by the time the student has 60 semester hours.)

- MATH 113 -College Algebra (4*) or higher
*3 credits apply to the Essential Learning requirements and 1 credit applies to elective credit

Humanities (3 semester hours)

- Select one Humanities course (3)

Social and Behavioral Sciences (6 semester hours)

- Select one Social and Behavioral Sciences course (PSYC 150 - General Psychology recommended) (3)
- Select one Social and Behavioral Sciences course (PSYC 233 - Human Growth and Development recommended) (3)

Natural Sciences (7 semester hours, one course must include a lab)

- Select one Natural Sciences course (3)
- Select one Natural Sciences course with a lab (BIOL 101/BIOL 101L - General Human Biology recommended) (4)

History (3 semester hours)

- Select one History course (3)

Fine Arts (3 semester hours)

- Select one Fine Arts course (3)

OTHER LOWER-DIVISION REQUIREMENTS

Wellness Requirement (2 semester hours)

- KINE 100 - Health and Wellness (1)
- Select one Activity course (1)

Essential Learning Capstone (4 semester hours)

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.

- ESSL 290 - Maverick Milestone (3)
- ESSL 200 - Essential Speech (1)

FOUNDATION COURSES (15-16 semester hours)

- BIOL 209 - Human Anatomy and Physiology I (3)
- BIOL 209L - Human Anatomy and Physiology I Laboratory (1)
- BIOL 210 - Human Anatomy and Physiology II (3)
- BIOL 210L - Human Anatomy and Physiology II Laboratory (1)
- BIOL 241 - Pathophysiology (4)
- One of the following courses:
 - STAT 200 - Probability and Statistics (3)
 - STAT 215 - Statistics for the Social and Behavioral Sciences (4)

BS, RADIOLOGIC SCIENCES REQUIREMENTS (65 semester hours)

Core Courses (46 semester hours)

- RADS 320 - Intro to Radiologic Technology and Patient Care (3)
- RADS 320L - Intro to Radiologic Technology and Patient Care Laboratory (1)
- RADS 321 - Radiographic Anatomy and Positioning I (2)
- RADS 321L - Radiographic Anatomy and Positioning I Laboratory (1)
- RADS 322 - Principles of Radiographic Exposure (2)
- RADS 322L - Principles of Radiographic Exposure Laboratory (1)
- RADS 323 - Digital Imaging (2)
- RADS 331 - Radiographic Anatomy and Positioning II (2)
- RADS 331L - Radiographic Anatomy and Positioning II Laboratory (1)
- RADS 332 - Specialized Imaging (2)
- RADS 333 - Imaging Equipment and QA (2)
- RADS 333L - Imaging Equipment & QA Laboratory (1)
- RADS 334 - Image Analysis I (2)
- RADS 335 - Radiation Biology & Protection (2)
- RADS 354 - Image Analysis II (2)
- RADS 451 - Imaging Pathology (3)
- RADS 452 - Sectional Anatomy (3)
- RADS 453 - Advanced Patient Care (3)
- RADS 461 - Principles of Computed Tomography (2)
- RADS 462 - Leadership and Management (3)
- RADS 463 - Information Literacy in Radiologic Science (3)
- RADS 464 - Senior Capstone (3)

Clinical Courses (19 semester hours)

- RADS 329 - Radiographic Clinical Experience I (1)
- RADS 339 - Radiographic Clinical Experience II (4)
- RADS 449 - Radiographic Clinical Experience III (6)
- RADS 459 - Radiographic Clinical Experience IV (5)
- RADS 469 - Radiographic Clinical Experience V (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. 3 semester hours)

- MATH 113 - College Algebra (1)
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- _____

SUGGESTED COURSE SEQUENCING

Freshman Year, Fall Semester: 14 credits

- ENGL 111 - English Composition (3)
- PSYC 150 - General Psychology (3)
- KINE 100 - Health and Wellness (1)
- Essential Learning - History (3)
- BIOL 101 - General Human Biology (3) and BIOL 101L - General Human Biology Laboratory (1)

Freshman Year, Spring Semester: 14 credits

- ENGL 112 - English Composition (3)
 - MATH 113 - College Algebra (4)
 - PSYC 233 - Human Growth and Development (3)
 - BIOL 209 - Human Anatomy and Physiology I (3) and BIOL 209L - Human Anatomy and Physiology I Laboratory (1)
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Sophomore Year, Fall Semester: 14 credits

- Essential Learning - Fine Arts (3)
- Essential Learning - Humanities (3)
- Essential Learning - Natural Science (3)
- BIOL 210 - Human Anatomy and Physiology II (3) and BIOL 210L - Human Anatomy and Physiology II Laboratory (1)
- KINA Activity (1)

Sophomore Year, Spring Semester: 13 credits

- BIOL 241 - Pathophysiology (4)
 - ESSL 290 - Maverick Milestone (3)
 - ESSL 200 - Essential Speech (1)
 - STAT 200 - Probability and Statistics (3) or STAT 215 - Statistics for the Social and Behavioral Sciences (4)
 - Elective (1-2)
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Junior Year, Fall Semester: 13 credits

- RADS 320 - Intro to Rad. Tech and Patient Care (3) and RADS 320L - Intro to Rad.Tech and Patient Care Laboratory (1)
- RADS 321 - Radiographic Anatomy/Positioning (2) and RADS 321L - Radiographic Anatomy/ Positioning Laboratory (1)
- RADS 322 - Principles of Radiographic Exposure (2) and RADS 322L - Principles of Radiographic Exposure Laboratory (1)
- RADS 323 - Digital Imaging (2)
- RADS 329 - Radiographic Clinical Experience I (1)

Junior Year, Spring Semester: 16 credits

- RADS 331 - Radiographic Anatomy/ Positioning II (2) and RADS 331L - Radiographic Anatomy/ Positioning II Laboratory (1)
- RADS 332 - Specialized Imaging (2)
- RADS 333 - Imaging Equipment and QA (2) and RADS 333L - Imaging Equipment & QA Laboratory (1)
- RADS 334 - Image Analysis I (2)
- RADS 335 - Radiation Biology & Protection (2)
- RADS 339 - Radiographic Clinical Experience II (4)

Junior Year, Summer Semester: 6 credits

- RADS 449 - Radiographic Clinical Experience III (6)
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Senior Year, Fall Semester: 16 credits

- RADS 354 - Image Analysis II (2)
- RADS 451 - Imaging Pathology (3)
- RADS 452 - Sectional Anatomy (3)
- RADS 453 - Advanced Patient Care (3)
- RADS 459 - Radiographic Clinical Experience IV (5)

Senior Year, Spring Semester: 14 credits

- RADS 461 - Principles of Computed Tomography (2)

- RADS 462 - Leadership and Management (3)
 - RADS 463 - Information Literacy in Radiologic Science (3)
 - RADS 464 - Senior Capstone (3)
 - RADS 469 - Radiographic Clinical Experience V (3)
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