Department of Health Sciences

BAS in Radiologic Sciences
(Bachelor of Applied Science Degree)

Information Packet
**Bachelor of Applied Science in Radiologic Sciences**

The Radiologic Sciences Program offers radiologic technologists with an associate degree in radiologic technology opportunity to achieve a bachelor of applied science in radiologic technology and prepares the graduate to seek certification in at least one additional specialty area in radiologic technology. This can lead to greater employment opportunities, increased compensation, and job security.

The graduate is prepared to take a certifying examination in computed tomography or magnetic resonance imaging upon completion of courses and clinical competencies in a specialty area. Dual certification enables the graduate to find employment in general diagnostic as well as advanced areas of radiologic technology.

In an online format, students develop skills in advanced specialty areas in radiologic science, cross sectional anatomy, leadership, informatics, quality management, research, and advanced patient care.

To apply to the program the applicant must:

- Have an associate degree in Radiologic Technology or the equivalent
- Hold primary pathway registration with the American Registry of Radiologic Technologists

Applicants from certificate radiography programs must contact the program coordinator for further options.

Admission requirements may change from year to year. It is the applicant’s responsibility to obtain the current admission requirements. If the applicant completes essential learning (general education) requirements of the program at another college or university, the registrar must receive final transcripts before Colorado Mesa University will award a degree.

The student must procure a clinical site for completion of the clinical portion of the program. Colorado Mesa University and the clinical site must establish and maintain an affiliation agreement during the time the student is completing the clinical portion.

To schedule an advising appointment for the BAS in Radiologic Technology, contact Olga Grisak, Program Coordinator, at (970) 248-1308 or ogrisak@coloradomesa.edu. Please see the Colorado Mesa University website at www.coloradomesa.edu for information on this program.

**GENERAL INFORMATION**

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Radiologic Sciences Program Mission Statement
In alignment with the mission of Colorado Mesa University, the mission of the Radiologic Sciences Program is to offer baccalaureate level professional education and professional certifications.

Program Student Learning Outcomes
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 Fluency)
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)

Program Application Deadline
The deadline for application to the program each academic semester is July 15 for fall semester or December 15 for spring semester.

Counseling, Financial Aid, and Scholarships
Please refer to the Colorado Mesa University website www.coloradomesa.edu or the current Colorado Mesa University catalog for information concerning career counseling, financial aid, and scholarships.

More Information
For more information about the program, course requirements, and course descriptions please visit Colorado Mesa’s website http://www.coloradomesa.edu/health-sciences/degrees/radiologic-technology.html or call 970-248-1398.
Degree Requirements and Program Progression for BAS in Radiologic Sciences

Curriculum and Progression to Graduation
The BAS degree is 121 credits. The program coursework is approximately three semesters in length.

<table>
<thead>
<tr>
<th>Essential Learning Requirements (31 semester hours)</th>
<th>Credit Hours</th>
<th>Contact Hours</th>
</tr>
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<tbody>
<tr>
<td>English Composition 111 and 112</td>
<td>6</td>
<td>90</td>
</tr>
<tr>
<td>Math 113 (3 credits apply to Essential Learning requirements and 1 credit applies to elective credit)</td>
<td>3</td>
<td>45</td>
</tr>
<tr>
<td>Humanities</td>
<td>3</td>
<td>45</td>
</tr>
<tr>
<td>Social and Behavioral Sciences (Two courses: PSYC 150 –General Psychology and PSYC 233 Human Growth and Development recommended)</td>
<td>6</td>
<td>90</td>
</tr>
<tr>
<td>Natural Science (Two courses and one course must include a lab)</td>
<td>7</td>
<td>120</td>
</tr>
<tr>
<td>History</td>
<td>3</td>
<td>45</td>
</tr>
<tr>
<td>Fine Arts</td>
<td>3</td>
<td>45</td>
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<table>
<thead>
<tr>
<th>Other Lower-Division Requirements (6 semester hours)</th>
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<tbody>
<tr>
<td>KINE 100 Health and Wellness</td>
</tr>
<tr>
<td>KINA Physical Activity</td>
</tr>
<tr>
<td>ESSL 290 Maverick Milestone</td>
</tr>
<tr>
<td>ESSL 200 Essential Speech</td>
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<table>
<thead>
<tr>
<th>Foundation Prerequisite Courses (15 or 16 semester credits)</th>
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</thead>
<tbody>
<tr>
<td>Anatomy and Physiology Lecture BIOL 209</td>
</tr>
<tr>
<td>Anatomy and Physiology Lab BIOL 209L</td>
</tr>
<tr>
<td>Anatomy and Physiology Lecture BIOL 210</td>
</tr>
<tr>
<td>Anatomy and Physiology Lab BIOL 210L</td>
</tr>
<tr>
<td>Pathophysiology BIOL 241</td>
</tr>
<tr>
<td>Probability and Statistics STAT 200 or Statistics for the Social and Behavioral Sciences STATS 215</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Radiologic Science Core Courses* (61 semester credits)</th>
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<tbody>
<tr>
<td>Accepted from AAS or AS in RT (if approved)</td>
</tr>
<tr>
<td>Didactic</td>
</tr>
<tr>
<td>Clinical</td>
</tr>
</tbody>
</table>

| General Electives (8 Upper Division semester hours). All college level courses appearing on your final transcript, not listed above that will bring your total semester hours to 121 hours. | 8 | 120 |

Total Hours 121

Conversion
Didactic (15 hours/1 credit hour)
Laboratory (30 hours/1 credit hour)
Clinical (45 hours/1 credit hour)
Suggested Course Sequencing for BAS in Radiologic Sciences after Completion of AAS/AS in Radiologic Technology and Essential Learning

It is recommended that students complete all essential learning and foundation course requirements (STAT 200, BIOL 209/209L; BIOL 210/210L, BIOL 241) prior to enrolling in radiologic sciences core courses. Students must complete all coursework for graduation within five years following acceptance into the program.

This is a recommended sequence of course work following completion of essential learning and anatomy and physiology I courses. Certain courses may have prerequisites or may only be offered during the fall or spring semesters. It is the student’s responsibility to meet with the assigned advisor and check the two-year course matrix on the Colorado Mesa website for course availability.

(Refer to the Program Sheet and CMU Catalog for Approved Courses)

**MRI Specialization**

**Fall Semester**
- RADS 452 Sectional Anatomy (3)
- RADS 453 Advanced Patient Care (3)
- RADS 460 Principles of MRI (2)
- RADS 480 Clinical Specialization I* (4)

**Spring Semester**
- RADS 462 Leadership and Management (3)
- RADS 463 Information Literacy in Radiologic Sciences (3)
- RADS 470 Applied MRI (3)
- RADS 480 Clinical Specialization II* (4)

**Fall Semester**
- Upper Division (300–400) Electives (8)

**CT Specialization**

**Fall Semester**
- RADS 452 Sectional Anatomy (3)
- RADS 453 Advanced Patient Care (3)
- Upper Division (300–400) Electives (8)

**Spring Semester**
- RADS 462 Leadership and Management (3)
- RADS 463 Information Literacy in Radiologic Sciences (3)
- RADS 461 Principles of CT (2)
- RADS 480 Clinical Specialization I* (4)

**Fall Semester**
- RADS 471 Applied CT (3)
- RADS 480 Clinical Specialization II* (4)

*RADS 480 and 490 Clinical I and II offered fall, spring, and summer semesters

12 credit hours required for fulltime status
Common Questions and Answers about the BAS in Radiologic Sciences

Please read all application materials, the program course descriptions in the CMU catalog, and visit the program website at [http://www.coloradomesa.edu/health-sciences/degrees/radiologic-technology.html](http://www.coloradomesa.edu/health-sciences/degrees/radiologic-technology.html)

What is the delivery system for the program?

All essential learning, foundation, and major courses are available online. Essential learning and foundation courses are also available on the CMU campus and the Bishop or Montrose campuses offer many courses. All BAS major requirements are offered online only.

Do I need my own computer?

As BAS major requirements are delivered online, having your own computer gives you more freedom in completing course assignments. Computer labs are available on campus for student use. As a student, you receive access to the MAVzone, a web-based learning program Desire to Learn (D2L), and an email address.

Do I have to receive acceptance from CMU before I can apply for the program?

Yes.

Does the program require an admission fee?

No, there is no fee to apply to the program, but there is a fee to apply to CMU.

What are the application deadlines for the program?

The application deadline is July 15 for fall semester and December 15 for spring semester.

Should I apply to the RT program before I request prior college transcripts to be mailed to CMU?

You may turn in the program application form before you ask other colleges to send transcripts. However, it is your responsibility to make sure the Department of Health Sciences receives all application documents before the deadline. Contact the Registrar’s Office at 248-1555 to have transfer credits evaluated for possible acceptance by Colorado Mesa University.

Does the Department of Health Sciences have to receive all RT application documents before the application deadline?

Yes, the Department of Health Sciences must receive copies of all college transcripts, a transcript evaluation (if you have taken courses from other colleges), and a program application prior to the deadline.

Do I have to complete all essential learning and foundation courses prior to applying to the program?

If you do not have an associate degree, you must complete the associate degree essential learning requirements before you can register for a course in the BAS major. It is recommended that students complete all essential learning and foundation course requirements (STAT 200, BIOL 209/209L; BIOL 210/210L, BIOL 241) prior to enrolling in radiologic sciences core courses.

Do I have to be continuously enrolled in BAS coursework?

Yes, once you have been accepted into the program you must register for at least one course from the major, foundation, or upper division elective each fall and spring. If you find it necessary to interrupt the program of study for one or more semesters, you can request an extension and readmission into the program.

Do I have to take the courses in sequence?

You cannot take Clinical I unless you are enrolled or have successfully completed RADS 460 Principles of MRI or RADS 461 Principles of CT. You cannot take Clinical II unless you are enrolled or have successfully completed RADS 470 Applied MRI or RADS 471 Applied CT.
I already have a certification in a specialized modality. I want to get a baccalaureate degree in that modality. In this situation, are there any differences in the program requirements?

If you have a specialized certification and desire a bachelor degree in that modality, in several instances you can opt to complete a portfolio rather than take the course. If you opt to complete the portfolio, you still have to register and pay for the course. In some cases, CMU can substitute upper division courses (such as radiation therapy) taken at another institution to allow a student obtain a bachelor degree.

Please note that to receive a baccalaureate degree from CMU, 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.

See the program coordinator for further details.

What classes can I take to fulfill essential learning requirements?
Refer to the Graduation Requirements for the BAS degree section in the Colorado Mesa University Catalog. The selected 100 and 200 level classes listed in this section are acceptable for fulfilling essential learning requirements.

Should I speak with an advisor before I register for essential learning courses?
You are strongly encouraged to speak with a program advisor prior to registering for essential learning or foundation courses.

Can I enroll part-time?
Yes, you can enroll as a part-time student, but you must complete all coursework for graduation within five years following acceptance into the program.

Can I enroll as a non-degree seeking student?
Yes, you can enroll as a non-degree seeking student.

Is there a deadline for completing coursework?
Yes, you must complete all coursework for graduation within five years following acceptance into the program.

When does the program start?
Students can enter the program in the fall or spring semesters. However, certain courses have prerequisites or are only offered during the fall or spring semesters.

Is clinical experience a part of the curriculum?
Yes, clinical experience is part of the curriculum. Students complete 180 hours of clinical experience per semester for two semesters with the goal to complete all ARRT competency requirements during that time.

Does CMU determine where I complete clinical experiences?
No, it is up to the student to find a clinical facility to complete clinical experiences. An affiliation agreement between CMU and the clinical facility must be in place. Contact the program coordinator well in advance as the process to acquire the agreement may take four to six weeks or longer to complete. Please note that clinical facilities require a criminal background investigation, immunization records, and other documentation prior to accepting students.

How much does the program cost?
Please visit http://www.coloradomesa.edu/student-accounts/expenses.html for current tuition and fee information. The admissions office can answer questions about tuition and fees. See Projected Radiologic Technology Program Costs for estimated expenditures for the program.
Are there any scholarships specifically for students in the program?

There are no specific scholarships designated for BAS Radiologic Science students. Students may qualify for other scholarships. Applications for scholarships are processed during the spring semester to assist students in paying for the next academic year. Please contact the Financial Aid Department for further aid information.
### Projected BAS Program Costs

This list serves as an estimate to assist students in budgeting. The costs are approximate and are subject to change without notice.

<table>
<thead>
<tr>
<th><strong>Tuition and Fees</strong></th>
<th><a href="http://www.coloradomesa.edu/student-accounts/expenses.html">http://www.coloradomesa.edu/student-accounts/expenses.html</a></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Housing and Meal Plans</strong></td>
<td><a href="http://www.coloradomesa.edu/residence-life/index.html">http://www.coloradomesa.edu/residence-life/index.html</a></td>
</tr>
<tr>
<td><strong>Miscellaneous</strong></td>
<td></td>
</tr>
<tr>
<td>Health insurance</td>
<td>Variable</td>
</tr>
<tr>
<td>Background Screen (prior to beginning program)</td>
<td>60.00</td>
</tr>
<tr>
<td>Drug screen</td>
<td>36.00</td>
</tr>
<tr>
<td>Liability insurance (annually)</td>
<td>40.00</td>
</tr>
<tr>
<td>CPR</td>
<td>32.00</td>
</tr>
<tr>
<td>MyClinicalExchange</td>
<td>40.00</td>
</tr>
<tr>
<td><strong>Immunizations</strong></td>
<td></td>
</tr>
<tr>
<td>TST-2 part initially (TB skin test) testing; one test annually</td>
<td>50.00 to 60.00/test</td>
</tr>
<tr>
<td>Tetanus, diphtheria, and pertussis (TDaP) vaccination</td>
<td>30.00-67.00</td>
</tr>
<tr>
<td>Influenza (flu) vaccination (annually)</td>
<td>0-30.00</td>
</tr>
<tr>
<td>Varicella (chicken pox) vaccination</td>
<td>154.00-159.00</td>
</tr>
<tr>
<td>Measles, mumps, and rubella vaccination</td>
<td>67.00-110/00</td>
</tr>
<tr>
<td>Hepatitis B immunizations ($60-120 x 3)</td>
<td>145.00-300.00</td>
</tr>
<tr>
<td>Meningococcal (suggested) immunization</td>
<td>90.00-135.00</td>
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<tr>
<td>Uniform whites ($45 x 2 recommended)</td>
<td>90.00</td>
</tr>
<tr>
<td>Lab coat (optional)</td>
<td>40.00</td>
</tr>
<tr>
<td>Shoes</td>
<td>70.00</td>
</tr>
<tr>
<td><strong>Incidentals</strong></td>
<td></td>
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<tr>
<td>Name tag (CT students only)</td>
<td>9.00</td>
</tr>
<tr>
<td>Dosimeter – initial setup fee (CT students only)</td>
<td>10.00</td>
</tr>
<tr>
<td>RT Program identification patches ($5)</td>
<td>2x5.00</td>
</tr>
</tbody>
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**Application Process**

**Admission to Colorado Mesa University**
The program requires applicants to have CMU admittance prior to submission of the separate BAS in RS application. Submit a completed **Colorado Mesa University application**, including application fee, through the Admissions Office or reactivate application file if you have missed one semester at Colorado Mesa University, declaring Bachelor of Applied Science in Radiologic Technology as area of emphasis. If you are a graduate of Colorado Mesa University, you must readmit to the University. Online applications to CMU are available at [www.coloradomesa.edu/admissions](http://www.coloradomesa.edu/admissions). CMU must accept you and assign the BAS Radiologic Sciences major code before you can register for classes.

Admission requirements may change from year to year. It is the applicant’s responsibility to obtain the current admission requirements. If the applicant completes essential learning (general education) requirements of the program at another college or university, the registrar must receive final transcripts before Colorado Mesa University will award a degree.

**Program Application and Selection Process**
*The application deadline is July 15 for fall semester and December 15 for spring semester.*