RADIOLOGIC TECHNOLOGY

Associate of Applied Science Degree
Center for Health Sciences at Lowry
CCD.edu/Radiologic-Technology

Radiologic Technology
In this program, you will learn to perform diagnostic x-ray procedures in a variety of settings, surgical suites, emergency rooms, within hospitals and clinics. Upon successful completion of the program, you will become part of a dynamic healthcare profession. This full-time program consists of academic courses and internships that are taken concurrently throughout 22 months. You will work with state-of-the-art equipment in our two energized x-ray labs, which includes mobile x-ray and fluoroscopy units, anthropomorphic phantoms, while utilizing the latest imaging technology. After successful completion of the program requirements, students will earn an Associate of Applied Science (A.A.S.) degree and are eligible to take the national certification examination through the American Registry of Radiologic Technologists (ARRT).

Over the past five years, our graduates have had an 85 percent job placement within six months and maintained a 99 percent pass rate on the ARRT exam. The average employment growth rate expected in the next 10 years is 9 percent for the U.S., and 33 percent in Colorado. Average entry-level wages are $22 per hour. Graduates can add to their skills with post-primary certification in other diagnostic imaging modalities, three are offered at CCD: computed tomography, magnetic resonance, and mammography.

PROGRAM ADMISSION REQUIREMENTS
For admissions requirements and application, please visit CCD.edu/Radiologic-Technology.

PREREQUISITES
Course | Title | Credits
--- | --- | ---
BIO 201 | Human Anatomy & Physiology with Lab I: GT-SC1 | 4
MAT 121 | College Algebra: GT-MA1 | 3
ENG 121 | English Composition I: GT-CO1 | 3

Choose One Elective
PSY 101 | General Psychology I: GT-SS3 | 3
SOC 101 | Introduction to Sociology I: GT-SS3 | 3
PSY 235 | Human Growth and Development: GT-SS3 | 3

Subtotal | 13

Second Semester
RTE 101 | Introduction to Radiography | 2
BIO 202 | Human Anatomy & Physiology II with Lab: GT-SC1 | 4

Subtotal | 6

Total Credits | 19

COURSE MAP
Course | Title | Credits
--- | --- | ---
Fall
RTE 111 | Radiographic Patient Care | 2
RTE 121 | Radiologic Procedures I | 3
RTE 141 | Radiographic Equipment and Imaging I | 3
RTE 181 | Radiographic Internship I | 5
Subtotal | 13

Spring
RTE 122 | Radiologic Procedures II | 3
RTE 131 | Radiographic Pathology and Image Evaluation I | 1.5
RTE 142 | Radiographic Equipment and Imaging II | 3
RTE 182 | Radiographic Internship II | 5
Subtotal | 12.5

Summer
RTE 183 | Radiographic Internship III | 7

Subtotal | 7

Sophomore
Fall
RTE 221 | Advanced Medical Imaging | 3
RTE 231 | Radiation Biology/Protection | 2
RTE 281 | Radiographic Internship IV | 8
Subtotal | 13

Spring
RTE 132 | Radiographic Pathology and Image Evaluation II | 1.5
RTE 282 | Radiographic Clinical Internship V | 8
RTE 289 | Radiographic Capstone | 3
Subtotal | 12.5

Total Credits | 58

TOTAL CREDIT HOURS COMPLETED FOR THE DEGREE: 77 CREDIT HOURS

**This program is not eligible for federal student aid.**

Are you a registered radiologic technologist, radiation therapist, or nuclear medicine technologist? Further your career with a certificate in computed tomography. This post-primary certification will increase your employment options and earning potential. Designed with the working technologist in mind, we’re offering an online didactic course and flexible internship opportunities throughout the fall, spring, and summer semesters.

CCD offers a competency-based certificate that includes a two-credit online course, exceeding the requirement of the American Registry of Radiologic Technologies (ARRT).

Pick a schedule that is customized to your abilities and circumstances in either a 7- or 15-week term during the fall and spring semesters. The online course progresses at a flexible pace for an individualized learning experience. Once completed, you’ll enroll in two clinical internships offered at area clinics and hospitals in the metro-Denver area. Your internships will prepare you to be job ready and are arranged by CCD’s computed tomography program coordinator. The required two clinical internships are arranged into sequential two credit, five-week sections. To complete the program, you’ll be evaluated by the supervising technologist and CCD’s computed tomography program coordinator to ensure you demonstrate your clinical skills, obtain additional competencies (the ARRT requires a minimum of 125 competencies), and to attain autonomy in the clinical setting. Additional internships are available for you should you need additional time.

PROGRAM ADMISSION REQUIREMENTS
For admission requirements and application, visit CCD.edu/Computed-Tomography.

COURSE MAP
Course | Title | Credits
--- | --- | ---
Code
RTE 257 | Computed Tomography Basics (I) | 2
RTE 280 | Internship (I) | 2
RTE 280 | Internship (II) | 2
Total Credits | 6

1 Courses are offered online through Desire2Learn and can be taken separately.
**Mammography**

Center for Health Sciences at Lowry

CCD.edu/Mammography

"This program is not eligible for federal student aid."

The medical imaging modality of mammography is an important tool used in the diagnosis of breast cancer. This program will assist you in obtaining the necessary didactic education and mandatory clinical competencies to prepare you to sit for the American Registry of Radiologic Technologists (ARRT) Mammography Certification Examination.

The program covers:

- specifics of equipment and instrumentation used in mammographic image production,
- patient care and positioning,
- radiation protection and safety,
- specifics of the Mammographic Quality Control Standards Act and its requirements for quality control testing,
- patient assessment and risk factors for breast disease,
- interventional procedures, and
- an introduction to breast tomosynthesis imaging.

After you complete the didactic course, your two required clinical internships will be scheduled at a clinic two days per week until all competencies are mastered. This program exceeds the 16 ARRT requirements of didactic education and the 40 contact hours of instruction required by the Mammography Quality Standards Act of 1992 and 1998. To complete the program, you will be evaluated by the supervising technologist and CCD’s mammography program coordinator to ensure you demonstrate proficient mammographic skills, and can demonstrate autonomy in the clinical environment.

**PROGRAM ADMISSION REQUIREMENTS**

For admission requirements and application, visit CCD.edu/Mammography.

<table>
<thead>
<tr>
<th>Course Map</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTE 250</td>
<td>Mammography</td>
<td>3</td>
</tr>
<tr>
<td>RTE 291</td>
<td>Mammography Internship (I)</td>
<td>2</td>
</tr>
<tr>
<td>RTE 291</td>
<td>Mammography Internship (II)</td>
<td>2</td>
</tr>
<tr>
<td><strong>Total Credits</strong></td>
<td></td>
<td><strong>7</strong></td>
</tr>
</tbody>
</table>

**Magnetic Resonance**

Center for Health Sciences at Lowry

"This program is not eligible for federal student aid."

Are you a registered technologist certified through the American Registry of Radiologic Technologists (ARRT), American Registry of Medical Sonography (ARDMS), or Nuclear Medicine Technology Certification Board (NMTCB)? If so, further your career with a certificate in magnetic resonance imaging (MR).

This post-primary certificate will increase your employment options and earning potential. Designed with the working technologist in mind, we are offering an online didactic course and day and evening internship opportunities throughout the Denver metropolitan area. This certificate includes a three credit online course that exceeds the requirements of the ARRT.

What you will learn and experience:

The online course is designed to allow a student to progress at a flexible pace for an individualized learning experience. Once completed, you will enroll in a 10 week internship to obtain the required competencies for the certificate and the ARRT. Throughout the internships, you will be evaluated by CCD’s MR clinical instructor to ensure you have obtained the necessary clinical skills and are able to work independently so you can be job ready.

Additional internships are available should you need additional time.