BACHELOR OF SCIENCE IN
RADIOLOGIC SCIENCES

Program Contact: Alicia Giaimo (Alicia.Giaimo@quinnipiac.edu)
203-582-3814

Radiographers are essential members of the healthcare team. Their
knowledge of radiation protection, physics and biology, as well as
technical procedures, allows them to deliver the safest and highest
quality patient care through the use of multiple imaging modalities. In
the evolving world of medicine, high technology imaging has become
multifaceted, both in modalities and operationally.

To prepare students for careers in radiography, Quinnipiac University’s
Department of Diagnostic Imaging offers a BS in Radiologic
Sciences. The program offers didactic, laboratory and clinical training in
diverse aspects of radiography including patient care, radiation safety,
image production and procedures for the student who is motivated to
become a member of the imaging profession. Students complete the
program in a three-year accelerated format.

The first year of the bachelor’s degree program consists of University
Curriculum studies. The component of the program accredited by the
Joint Review Committee on Education in Radiologic Technology begins in
the second year of study. During the second and third years, the students
concentrate on didactic radiography classes and laboratory sessions on
campus and clinical education at multiple clinical education centers. The
curriculum is structured so students can apply the knowledge and skills
developed in the classroom and laboratory to the care of patients in the
clinical setting. Beginning in the spring semester of the sophomore year
and continuing throughout the program, didactic and clinical courses
are taken simultaneously to provide the opportunity for immediate
application and reinforcement.

At the end of the third year, students are eligible for graduation with a
bachelor’s degree in Radiologic Sciences, and are board-eligible for the
American Registry of Radiologic Technologists (ARRT) certification
examination. Students would be eligible to apply for one of two advanced
studies options here at Quinnipiac University. Options within the
Diagnostic Imaging Department include the two-year MHS Radiologist
Assistant (http://catalog.qu.edu/graduate-studies/health-sciences/
radiologist-assistant-mhs/) program and the one-year MHS Advanced
Medical Imaging and Leadership (http://catalog.qu.edu/graduate-
studies/health-sciences/advanced-medical-imaging-and-leadership-
program/) program.

BS in Radiologic Sciences Curriculum

The designated Radiologic Sciences course curriculum is subject to
modification as deemed necessary to maintain a high-quality educational
experience. The Academic Standing and Progression Committee
recommendations regarding student progression, discipline or dismissal
will be considered on a case-by-case basis.

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Fall Semester</td>
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<tr>
<td>BIO 101 &amp; 101L</td>
<td>General Biology I and General Biology I Lab</td>
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<tr>
<td>EN 101</td>
<td>Introduction to Academic Reading and Writing</td>
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<td>CHE 101 or PHY 101</td>
<td>Fundamentals of General, Organic and Biological Chemistry</td>
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<tr>
<td>MA 275</td>
<td>Biostatistics</td>
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<td>RS 100</td>
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<td>Spring Semester</td>
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<td>BIO 211 &amp; 211L</td>
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<td>UC Elective</td>
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<tr>
<td>RS 241 &amp; 241L</td>
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<td>&amp; 241L</td>
<td>and Radiographic Image Production and Evaluation Lab I</td>
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<td>RS 222</td>
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<td>&amp; 242L</td>
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### Third Year

#### Fall Semester

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<td>RS 260</td>
<td>Radiographic Physics and Instrumentation</td>
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<tr>
<td>RS 232 &amp; 232L</td>
<td>Radiographic Procedures III and Laboratory Practicum III</td>
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<td>RS 254</td>
<td>Radiologic Clinical Education IV</td>
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<td>RS 318</td>
<td>Pathology for Imaging Sciences</td>
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<td>RS 414</td>
<td>Research: Analysis and Critique (DMS 414)</td>
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#### J-term

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#### Spring Semester

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<td>Human Anatomy Imaging II</td>
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<td>RS 215</td>
<td>Radiation Safety and Protection</td>
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<td>RS 255</td>
<td>Radiologic Clinical Education</td>
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<tr>
<td>RS 290 &amp; 290L</td>
<td>Advanced Radiographic Procedures IV and Laboratory Practicum</td>
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<td>RS 499</td>
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**Total Credits**: **120**

1. BIO 101—BIO 102 are required courses for the Radiologic Sciences program and may be used to meet the university core sciences requirement.

2. Initial placement in the English and mathematics courses is determined by placement examination and an evaluation of high school units presented. The minimum mathematics requirement is MA 275 or its equivalent.

3. Associated lab is required for both Chemistry and Physics. CHE 110 or PHY 110 with lab are acceptable to fulfill the requirement. Students may take the lab in the fall or spring of their first year.

4. If taking Chemistry or Physics in the spring, this UC elective should be taken in the fall semester.

All radiologic sciences course requirements must be completed in the appropriate semester as indicated above.

Completion of the above curriculum will meet requirements for graduation.

### Student Learning Outcomes

Upon completion of the BS in Radiologic Sciences program, students will demonstrate the following competencies:

**Goal**: The students will be clinically competent.

a. **Clinically Knowledgeable**: Apply skills and knowledge from foundational courses.

b. **Procedurally Knowledgeable**: Demonstrate growth in procedural knowledge from all Radiologic Sciences coursework.

**Goal**: The students will demonstrate effective communication skills.

a. **Effective Communication**: Execute interpersonal communication with patients.

b. **Oral Proficiency**: Demonstrate their ability to present clear and creative ideas related to a case study.

**Goal**: The students will demonstrate critical thinking.

a. **Critical Decision-Making**: Demonstrate their ability to perform non-routine and routine procedures.

b. **Image Analysis**: Evaluate images for quality and diagnostic value.

**Goal**: The students will grow and develop as highly qualified professionals.

a. **Professional Ethics**: Understand and apply ethical decision-making.

b. **Professional Behaviors**: Conduct themselves professionally.

c. **Professional Research**: Create a culminating capstone project.

**Goal**: The program will continuously monitor and strive to sustain its effectiveness.

a. **Completion Rate**: Students who start the program will complete the program.

b. **Employer Satisfaction**: Employers will be satisfied with the education of the graduates of the program.

c. **Graduate Satisfaction**: Graduates will be satisfied with the education received from the program.

d. **Employment Rate**: Graduates of the program will become employed within six months of completion of the program.

### Mission Statement

The Quinnipiac University Radiologic Sciences program supports the mission statements of both Quinnipiac University and the School of Health Sciences and their commitment to excellence in education. The mission of the Radiologic Sciences program at Quinnipiac University is to develop students’ technical and interpersonal communication skills through a logical sequence of didactic, laboratory and clinical experiences. The program offers multiple clinical assignments to provide maximum exposure to diversified radiographic procedures and imaging protocols. In addition, the program prepares graduates to be competent in the art and science of radiography. Graduates of the Radiologic Sciences program will meet the needs of the community as competent and highly qualified professionals. The program will prepare students for career entry and the ability to pursue advanced study.

Candidates applying for admission to the Radiologic Sciences program are required to have at least three years of high school college preparatory mathematics and one year of biology. One year of anatomy and physiology and one year of general chemistry or physics is recommended. In addition, the scores of the SAT or the ACT are an important consideration. Related healthcare experience is highly desirable. Prospective candidates also must satisfy general Quinnipiac University Admission Requirements (http://catalog.qu.edu/general-information/admissions/).

### Policies

In addition to the general policies of Quinnipiac University, such as due process and academic honesty, the following apply to students enrolled in the Radiologic Sciences program.
Progression in the Program
The Radiologic Sciences Program has both GPA and final course grade requirements.

A cumulative GPA of 2.5 and a programmatic GPA of 3.0 must be maintained each semester. Final course grades of D or F in an RS course are unacceptable. Programmatic GPA calculation and final course grade requirements begin with RS 100 and include all RS coursework thereafter.

Any student who does not maintain GPA requirements or earns a grade of D or F in any RS course will be referred to the Diagnostic Imaging Department’s Academic Progression and Retention Committee (APRC) for review. Students who fail to meet the minimum cumulative university GPA requirement of 2.5 and/or the minimum programmatic GPA requirement of 3.0 will be subject to sanctions up to and including program dismissal. Students who earn a final course grade of D or F for any RS course will be subject to program dismissal.

Transportation
Multiple clinical education centers are used throughout the professional component of the program. Students are responsible for their own transportation to and from these sites.

Summer Study
All students are required to perform one clinical assignment during the summer semester, second year (RS 253). This clinical practicum is performed during summer sessions I and II and may be performed only at a clinical affiliation currently approved by the Joint Review Committee on Education in Radiologic Technology (JRCERT) for the program.

Technical Standards
The Radiologic Sciences program is a rigorous program that places specific demands on its students. As stated in the mission of the program, graduates of the program will meet the needs of the community as efficient and highly qualified professionals.

The technical qualifications set forth by the American Registry of Radiologic Technologists combined with the program’s views provides a guide to the essential qualities necessary to pursue a career in radiologic sciences as well as meet the expectations of the programs accrediting body (Joint Review Committee on Education of Radiologic Technologists: JRCERT).

Students in the program will be required to verify their understanding and compliance with the technical standards, or their belief that with reasonable accommodations these standards can be met, through reading, signing and returning the form to the program director.

Transfer Admissions
Internal and external transfer candidates are evaluated on a space-available, competitive basis.

Additional Program Costs
As a clinical education program, the Radiologic Sciences major requires some expenses that go beyond standard university tuition and fees:

a. Clinical/Fieldwork Education Travel (gas, parking, public transportation) – Students will have clinical rotation experiences that take him/her off campus. For these rotations, the student will typically be traveling two to three times per week. Clinic begins in the sophomore year and students are responsible for providing their own transportation. Cost – variable.

b. Immunizations – Consistent with the School of Health Sciences policy, all students must have a full battery of immunizations and in some cases titer affirmation of immunity for common diseases including but not limited to: MMR, HepB, varicella, polio, TDAP, TB and influenza. These must be documented prior to the start of clinical experiences during the sophomore year and must be maintained through the undergraduate education. Cost – variable (please check with your insurance carrier).

c. Background Check – All students must undergo an initial background check prior to the start of clinical/fieldwork experience.

i. Initial background check cost is $63 for all domestic addresses for the past 7 years or $158 for students who have resided in New York state in the last 7 years due to NY state surcharge.

ii. Some clinical fieldwork sites may require an additional yearly background recheck. Cost – $32 per annual recheck.

d. Drug Screening – All students must undergo a drug screening prior to the start of the main component of the program in the sophomore year. Cost – approximately $42.25.

e. Liability Insurance – All students have liability insurance coverage through the university, free of charge, while performing required clinical activity. Students may choose to purchase additional coverage at their own expense.

f. EXXAT and APPROVE – Students enrolled in professional programs must enroll in EXXAT and APPROVE.

i. EXXAT is the clinical tracking and assessment program used by the School of Health Sciences. Cost – one-time payment of $150 per student for the current major (students are responsible for this cost).

ii. APPROVE is the program within EXXAT that tracks all student health and safety records, provides documentation to prospective clinical sites, and provides notification of impending expiration dates. Cost – $35 for first year, $10 per year thereafter.

Please note – All fees are subject to change.

The Radiologic Sciences program at Quinnipiac University is accredited by:

The Joint Review Committee on Education in Radiologic Technology (jrcert.org (http://www.jrcert.org))
20 N. Wacker Drive, Suite 2850
Chicago, IL 60606-3182

Phone: 312-704-5300

The program received an eight-year accreditation (the maximum available) in Spring 2020. The re-accreditation process will commence in 2027 with submission of the self-study report to the JRCERT.
RS 100. Fundamentals of Diagnostic Imaging. 1 Credit.
This course provides the student with a basic knowledge of the fundamentals of diagnostic imaging practice. Topics include defining diagnostic imaging as it relates to all imaging modalities, historical development of the profession, introduction to current and emerging practice arenas, and application of professional terminology. Students complete a self-study in medical terminology.
Offered: Every year, Fall

RS 101. Introduction to Diagnostic Imaging. 3 Credits.
Designed to provide an orientation to radiologic sciences, this course includes history, ethics and basic principles of radiation protections, medical and medicolegal terminology, as well as preclinical observation.
Prerequisites: Take RS 100.
Offered: Every year, Spring

RS 201. Human Anatomy Imaging I. 1 Credit.
This course presents in-depth consideration of human anatomy within systems located in the chest, abdomen and upper extremity of the body. Students discuss the structure and function of each anatomic component within each region. Conventional anatomic illustrations are correlated with their radiographic counterpart. The radiographic appearance of specific structures as demonstrated on conventional radiographic images is correlated to images obtained using other advanced imaging modalities such as computed tomography, magnetic resonance and sonography.
Prerequisites: Take BIO 212, BIO 212L, RS 222.
Corequisites: Take RS 232.
Offered: Every year, Fall

RS 202. Human Anatomy Imaging II. 1 Credit.
This course presents in-depth consideration of human anatomy within systems located in the head, neck, pelvis and lower extremity. For each region, students discuss the structure and function of each anatomic component. Conventional anatomic illustrations are correlated with their radiographic counterpart. The radiographic appearance of specific structures as demonstrated on conventional radiographic images is correlated to images obtained using other advanced imaging modalities such as computed tomography, magnetic resonance and sonography.
Prerequisites: Take RS 201.
Offered: Every year, Fall

RS 212. Radiographic Procedures I. 2 Credits.
This course introduces the student to the basic concepts, principles and applications of radiographic and radiologic procedures. Additional applications related to orthopaedic terminology, pathologies and procedures, trauma and patient-related modifications also are presented.
Prerequisites: Take RS 101, MA 275 and BIO 102.
Corequisites: Take RS 212L.
Offered: Every year, Fall

RS 212L. Laboratory Practicum I. 2 Credits.
This practicum develops preclinical competency in radiographic procedures studied in RS 212, as well as routine hospital procedures and radiographic tasks, basic radiographic analysis, patient management, communications and manipulation of imaging equipment.
Corequisites: Take RS 212.
Offered: Every year, Fall

RS 215. Radiation Safety and Protection. 3 Credits.
Students are introduced to the effects of ionizing radiation on biological systems at the molecular, cellular, organism, and community levels, with emphasis on medical implications and radiation protection.
Prerequisites: Take RS 260.
Offered: Every year, Spring

RS 222. Radiographic Procedures II. 3 Credits.
This course builds on the foundations developed in RS 212. This course provides continued integration and expansion on the concepts, principles and applications of radiographic and radiologic procedures.
Prerequisites: Take RS 212.
Corequisites: Take RS 222L.
Offered: Every year, Spring

RS 222L. Laboratory Practicum II. 2 Credits.
Designed to develop preclinical competency in radiographic procedures studied in RS 222, this practicum focuses on radiographic analysis, patient management, communications and manipulation of imaging equipment.
Prerequisites: Take RS 212.
Corequisites: Take RS 222.
Offered: Every year, Fall

RS 232. Radiographic Procedures III. 3 Credits.
This course provides continued integration and expansion on the concepts, principles and applications developed in RS 212 and RS 222.
Prerequisites: Take RS 222.
Corequisites: Take RS 232L.
Offered: Every year, Fall

RS 232L. Laboratory Practicum III. 2 Credits.
This practicum is designed to develop preclinical competency in routine hospital procedures and radiographic tasks, basic radiographic analysis, patient management, communications and manipulation of imaging equipment.
Prerequisites: Take RS 222.
Corequisites: Take RS 232.
Offered: Every year, Fall

RS 241. Radiographic Image Production and Evaluation. 3 Credits.
This course presents the basic principles, concepts and practical applications of radiographic image production and diagnostic quality. Topics include radiation production, description and proper selection of exposure factors, radiation protection, imaging media, imaging equipment and basic imaging formulas.
Prerequisites: Take RS 101, MA 275 and BIO 102.
Corequisites: Take RS 241L.
Offered: Every year, Fall

RS 241L. Radiographic Image Production and Evaluation Lab I. 1 Credit.
The laboratory, which accompanies RS 241, is designed to demonstrate and reinforce the concepts and principles presented in class. (2 lab hrs.)
Corequisites: Take RS 241.
Offered: Every year, Fall

RS 242. Radiographic Image Production and Evaluation II. 3 Credits.
This course expands on the foundations developed in RS 241. Integration and application of these foundations includes the development of exposure charts, methods of image processing, and the causation and identification of image artifacts. The course also incorporates quality control concepts and testing, and introduces basic terminology and principles of quality control and digital imaging systems.
Prerequisites: Take RS 241.
Corequisites: Take RS 242L.
Offered: Every year, Spring

RS 242L. Radiological Processing and Exposure Lab. 1 Credit.
The laboratory, which accompanies RS 242, is designed to demonstrate and reinforce the concepts and principles presented in class. (2 lab hrs.)
Corequisites: Take RS 242.
Offered: Every year, Spring
RS 290. Radiologic Clinical Education I. 2 Credits.
Students are provided with their initial clinical experience under the supervision of certified clinical instructors and clinical staff. Focus is on developing clinical competency and proficiency related to radiologic procedures and concepts taught in RS 212 and RS 241.
Prerequisites: Take RS 212, RS 241.
Corequisites: Take RS 222, RS 242.
Offered: Every year, Spring

RS 253. Radiologic Clinical Education II. 4 Credits.
This course, a continuation of RS 250, is a 12-week, 35 hour-per-week summer clinical experience under the supervision of certified clinical instructors and clinical staff. Clinical competency and proficiency related to the performance of radiographic procedures and concepts are continually developed and assessed.
Prerequisites: Take RS 250.
Offered: Every year, Summer

RS 254. Radiologic Clinical Education IV. 3 Credits.
This course, a continuation of RS 253, is a clinical experience under the supervision of certified clinical instructors and clinical staff. Clinical competency and proficiency related to the performance of radiographic procedures and concepts are continually developed and assessed.
Prerequisites: Take RS 253.
Corequisites: Take RS 232.
Offered: Every year, Fall

RS 255. Radiologic Clinical Education. 3 Credits.
This clinical experience is under the supervision of certified clinical instructors and clinical staff. Clinical competency and proficiency related to the performance of radiographic procedures and concepts are developed and assessed.
Prerequisites: Take RS 254.
Corequisites: Take RS 290.
Offered: Every year, Fall

RS 260. Radiographic Physics and Instrumentation. 3 Credits.
This course presents an analysis of the production of X-rays and the interaction of radiation with matter, units of radiation measurements and radiation protection.
Prerequisites: Take RS 242.
Offered: Every year, Fall

RS 290. Advanced Radiographic Procedures IV. 3 Credits.
This course provides continued integration and expansion on the concepts, principles and applications developed in RS 232. Students are introduced to the basic principles of CT, DEXA, MRI and mammography.
Prerequisites: Take RS 232.
Corequisites: Take RS 290L.
Offered: Every year, Fall

RS 290L. Laboratory Practicum. 1 Credit.
This practicum is designed to develop preclinical competency in routine hospital procedures and radiographic tasks, basic radiographic analysis, patient management, communications and manipulation of imaging equipment.
Prerequisites: Take RS 232.
Corequisites: Take RS 290.
Offered: Every year, Spring

RS 297. Methods of Patient Care. 2 Credits.
This course focuses on a study of skills in providing humanistic care for the well, acute or chronically ill individual, including preparing patients for invasive as well as non-invasive imaging studies; basic clinical skills in infection control, including aseptic technique, venipuncture, vital signs and O2 administration; effective communication with emphasis on problem-solving skills.
Prerequisites: Take RS 101.
Corequisites: Take RS 297L.
Offered: Every year, Spring

RS 297L. Methods of Patient Care Lab. 1 Credit.
This lab develops preclinical competency for the procedures described and demonstrated in RS 297. (2 lab hrs.)
Corequisites: Take RS 297.
Offered: Every year, Spring

RS 318. Pathology for Imaging Sciences. 3 Credits.
This course provides an introduction to the basic study of disease, including etiology, pathophysiology and current diagnostic procedures. Normal structure and function are reviewed prior to the discussion of each anatomic system.
Prerequisites: Take RS 222, BIO 212.
Offered: Every year, Fall

RS 336. Pharmacology for the Radiographer. 2 Credits.
The major classifications/categories, clinical applications and implications of pharmaceuticals used in diagnostic imaging and interventional procedures are presented.
Prerequisites: Take RS 297.
Offered: Every year, January Term

RS 414. Research: Analysis and Critique (DMS 414). 3 Credits.
This course explores the basic elements of health care research including different types of research models and research strategies. Students explore the differences between a variety of publication types, including editorials, case studies and peer-reviewed research articles. Students also learn techniques for database queries.
Prerequisites: Take RS 101.
Offered: Every year, Fall

RS 499. Capstone (DMS 499). 3 Credits.
This capstone course is intended for radiologic sciences majors and diagnostic medical sonography majors in their final semester. Students are required to develop a research project as it relates to the field of diagnostic imaging. The project may relate to the student’s chosen focus and must include either a formal thesis paper or poster presentation.
Prerequisites: Take RS 414.
Offered: Every year, Spring