

Mission and Goals of the Radiologic Sciences Program

The Quinnipiac University Radiologic Science 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 Diagnostic Imaging Program at Quinnipiac University is to develop the student's technical and interpersonal communication skills through a logical sequence of didactic, laboratory and clinical experiences. The program will offer multiple clinical assignments to provide maximum exposure to diversified radiographic procedures and imaging protocols. In addition, the program will prepare graduates competent in the art and science of radiography. Graduates of the Radiologic Science Program will meet the needs of the community as competent and highly-qualified professionals. The program will prepare students for career entry and to move on to advanced study.

Goals and Outcomes:

Goal: The students will be clinically competent.

1. **Clinically knowledgeable:** Apply skills and knowledge from foundational courses.
2. **Procedurally Knowledgeable:** Demonstrate growth in procedural knowledge from all Radiologic Sciences coursework.

Goal: The students will demonstrate effective communication skills.

1. **Effective communication:** Execute interpersonal communication with patients.
2. **Oral Proficiency:** Demonstrate their ability to present clear and creative ideas related to a case study.

Goal: The students will demonstrate critical thinking.

1. **Critical Decision Making:** Demonstrate their ability to perform non-routine and routine procedures.
2. **Image Analysis:** Evaluate images for quality a diagnostic Value

Goal: The students will grow and develop as professionals.

1. **Professional Ethics:** Understand and apply ethical decision making.
2. **Professional Behaviors:** Conduct themselves professionally.
3. **Professional Research:** Create a culminating capstone project.

Goal: The program will continuously monitor its effectiveness.

1. **Completion Rate:** Students who start the program will complete the program.
2. **Employer Satisfaction:** Employers will be satisfied with the education of the graduates of the program
3. **Graduate Satisfaction:** Graduates will be satisfied with the education received from the program
4. **Employment Rate:** Graduates of the program will become employed within six months of completion of the program.



QUINNIPIAC UNIVERSITY RADIOLOGIC SCIENCES PROGRAM

ASRT PRACTICE STANDARDS OF MEDICAL IMAGING & PROGRAM / ARRT QUALIFICATIONS

In order to perform the tasks required of a licensed radiographer, certain technical standards are required. Students must demonstrate the ability to perform required functions as a routine part of either classroom, laboratory or clinical education. Students should be aware that successful completion of the Radiologic Science Program will depend upon the ability to meet the following technical standards:

Every student in the Radiologic Science program must possess the ability to learn and perform the following competencies and skills:

Motor: The student possesses sufficient motor capabilities to execute the movements and skills required to provide imaging services. These include, but are not limited to:

1. Ability to adjust and position equipment and patients, which involves bending or stooping freely to floor level and reaching above the head.
2. Ability to move or position equipment and patients, which involves lifting, carrying, pulling, and no weight lifting restrictions.
3. Have the endurance to complete all required tasks during the assigned period of clinical practice in order to carry out the imaging process in the context of patient care delivery.
4. Ambulate independently for the assigned period of clinical practice.
5. Reach up to six (6) feet off the floor.
6. Lift thirty (30) pounds of weight up, and over the level of head.
7. Coordination, speed and agility to assist and safely guard, with safe and proper body mechanics, patients who are ambulating, transferring, or performing other activities.
8. Ability to guide, resist, and assist patients, or to provide emergency care, which involves the activities of standing, kneeling, sitting, or walking.
9. Use fine motor skills and manual dexterity in manipulating a wide range of radiographic and medical equipment and peripherals.
10. Use either and/or both hands for imaging and equipment manipulation.
11. Stand for protracted periods of time without a break.
12. Successfully complete a Cardio-Pulmonary Resuscitation (CPR) certification course for **Health Care Providers**; which should include Adult, Pediatric and AED.
13. Ability to administer CPR without assistance.
14. Ability to perform physical capabilities and practice correct ergonomics as indicated by the American Registry of Radiologic Technologists (ARRT), OSHA, CDC and JCAHO. Students must review the Industry Standards for Prevention of Work-Related Musculoskeletal Disorders by the OSHA, CDC and JCAHO publications on musculoskeletal injuries as they relate to the radiographer.

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Sensory: The student possesses the ability to obtain information in classroom, laboratory or clinical settings through observations and other measures, including but not limited to:

1. Visual ability to discriminate color changes, to see slight differences in shapes and objects, to read or set parameters on various equipment, and to interpret and assess the environment.
2. Visual ability to recognize and interpret facial expressions and body language, and to identify normal and abnormal patterns of movement.
3. Visual ability to discriminate between blacks, grays, whites, and the entire color spectrum on various display devices.
4. Observe patients at a distance or via television monitor.
5. Visually monitor patients in dimly lit environments.
6. Auditory ability to recognize and respond to soft voices, auditory timers, equipment alarms, call bells, and to effectively use devices for measurement of blood pressure, breath sounds, etc.
7. Audibly monitor patient conditions.
8. Tactile ability to palpate a pulse and to detect changes or abnormalities of surface texture, skin temperature, body contour, muscle tone, and joint movement.
9. Sufficient position, movement and balance sensations to assist and safely guard patients who are ambulating, transferring or performing other activities.

Communication: The student utilizes effective communication with peers, faculty, and other healthcare providers. Communication competencies include knowledge, attitude, and skills necessary to provide quality and safe patient care in all healthcare settings. This includes, but is not limited to:

1. Ability to read (in English) at a competency level that allows one to carry out the essential functions of an assignment (examples: handwritten data, printed policy and procedure manuals).
2. Ability to effectively interpret and process information.
3. Ability to effectively and efficiently communicate (verbally and in writing) with patients/families, healthcare professionals and others within the community under stressful conditions.
4. Accurately elicit information from patients, family member/significant others, health team members, and/or faculty related to a patient's medical history and current status necessary to adequately and effectively evaluate a patient's condition.
5. Effectively interact with individuals and communicate their needs promptly and effectively, as may be necessary in the patient's interest.
6. Effectively collaborate with physicians and other members of the healthcare team, and provide an oral or written summary of the technical findings to the physician for medical diagnosis.
7. Ability to access information and to communicate and document effectively via computer.
8. Ability to recognize, interpret, and respond to nonverbal behavior of self and others.

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Behavioral/Social: The student must be able to exercise good judgment and tolerate contact with a diverse population, including people of all ages, races, socioeconomic and ethnic backgrounds, and medical or mental health problems. This also includes, but is not limited to:

1. Ability to work with multiple patients and colleagues at the same time.
2. Ability to work with classmates, instructors, healthcare providers, patients, and others under stressful conditions, including but not limited to providing care to medically or emotionally unstable individuals, situations requiring rapid adaptations, the provision of CPR, or other emergency interventions.
3. Possess the emotional stability to function effectively under stress and to adapt to an environment that may change rapidly, without warning, and/or in unpredictable ways.
4. Ability to work effectively, respectfully and professionally as part of the healthcare team, and to interact with patients, their families, and health care personnel in a courteous, professional, and respectful manner.
5. Possess sufficient interpersonal skills to interact positively with people from all levels of society, and all ethnic and religious backgrounds.
6. Possess a high level of compassion for others, motivation to serve, integrity, and a consciousness of social values.
7. Ability to foster and maintain cooperative and collegial relationships with classmates, instructors, other healthcare providers and patients.
8. Ability to contribute to collaborative, constructive learning environments; accept constructive feedback from others; and take personal responsibility for making appropriate positive changes.
9. Possess attributes that include compassion, empathy, altruism, integrity, responsibility, and tolerance.
10. Ability to recognize limitations in their knowledge, skills and abilities and to seek appropriate assistance with their identified limitations.

Intellectual/Critical Thinking: The student possesses sufficient abilities in the areas of calculation, critical problem solving, reasoning, and judgment to be able to comprehend and process information within a reasonable time frame as determined by the faculty and the profession. The student must be able to prioritize, organize, and attend to tasks and responsibilities efficiently. This includes, but is not limited to:

1. Ability to measure, collect, interpret, and analyze written, verbal, and observed data about patients.
2. Ability to prioritize multiple tasks, integrate information and make decisions in a prompt and timely fashion.
3. Ability to apply the principles, indications, and contraindications for radiography.
4. Ability to comprehend multi-dimensional relationships and the spatial relationships of anatomic structures.
5. Ability to act safely and ethically in the classroom, laboratory and in clinical setting.
6. Effective use of problem-solving skills including conceptual, integrative and quantitative abilities.

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Note: All students must be capable of performing the technical standards as listed above, with or without a reasonable accommodation. Failure to perform the program's essential technical standards shall result in a student's removal from the program.

A main goal of a competent Licensed Radiographer is the deliverance of quality patient care and useful diagnostic information. Below is a list of *some* of the practice standards of the profession in basic terms.

However, the student is responsible for reading and reviewing the ASRTs entire "Practice Standards for Medical Imaging and Radiation Therapy: Radiography," and agree to compliance with the statements as part of the program. The document can be found at:

<https://www.asrt.org/main/standards-and-regulations/professional-practice>

CLINICAL PERFORMANCE STANDARDS

1. The practitioner collects pertinent data about the patient and about the procedure.
2. The practitioner analyzes the information obtained during the assessment phase and develops an action plan for completing the procedure.
3. The practitioner provides information about the procedure to the patient, significant others and other health care providers.
4. The practitioner implements the action plan
5. The practitioner determines whether the goals of the action plan have been achieved, and implements revised action plans if necessary.
6. The practitioner reviews and evaluated the outcome of the procedure.
7. The practitioner documents information about patient care, the procedure, and the final outcome.
8. The practitioner collects pertinent information regarding equipment, the procedures, and the work environment.
9. The practitioner analyzes information collected during the assessment phase and determines whether changes need to be made to equipment, procedures, or the work environment.
10. The practitioner informs patients, the public, and other health providers about procedures, equipment, and facilities.
11. The practitioner performs quality assurance activities or acquires information on equipment and materials.
12. The practitioner evaluated quality assurance results and establishes an appropriate action plan.
13. The practitioner implements the quality assurance action plan.
14. The practitioner assesses the outcome of the quality assurance plan in accordance with established guidelines.
15. The practitioner documents quality assurance activities and results.
16. The practitioner strives to provide optimal care to all patients.
17. The practitioner evaluates personal performance, knowledge, and skills.
18. The practitioner acquires and maintains current knowledge in clinical practice.
19. The practitioner promotes a positive collaborative practice atmosphere with other members of the health care team.
20. The practitioner adheres to the profession's Code of Ethics.
21. The practitioner participates in the acquisition, dissemination, and advancement of the professional knowledge base.

ARRT QUALIFICATIONS FOR EXAMINATION

- Candidates must be of good moral character
- Conviction of a felony, or any other offense, misdemeanor, involving moral turpitude, may indicate a lack of good moral character. Those convicted or a crime must supply

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written explanation, including court documentation with the application of the examination.

- Applicants will be allowed three (3) attempts to pass the certification examination. The 3 attempts must occur within a 3-year period.

PROGRAM REQUIREMENTS

1. Prior to admission Fall sophomore year, students must have:
 - A. A minimum cumulative university GPA of a 2.5
 - B. A programmatic GPA of 3.0 is required to progress into the major, starting with RS 100, fall freshman year.
 - C. Successfully complete with a C- or better:
 - BI 101, BI 102, or approved transfer equivalent
 - D. Successfully complete MA 275
 - E. Successfully complete one (1) Physics or Chemistry course prior to RS 241 Radiographic Image Production and Evaluation

ADDITIONAL PROGRAM COSTS:

As a clinical education program, the INSERT PROGRAM major requires some expenses that go beyond standard university tuition and fees:

1. **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. **Costs - variable**
2. **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. **Costs - variable (please check with your insurance carrier)**
3. **Background Check:** All students must undergo an initial background check prior to the start of any clinical/fieldwork experience.
 - Initial background check cost is \$56 for all domestic addresses for the past 7 years or \$136 for students who have resided in New York State in the last 7 years due to NY State surcharge.
 - Some students may be required to do an annual recheck 1-year after the initial background recheck. **Cost - \$25 per annual recheck**
4. **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 - \$42.25**
5. **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.
6. **EXXAT and APPROVE:** Students enrolled in professional programs must enroll in EXXAT and APPROVE.
 - 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).**
 - 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 after**

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PLEASE NOTE – ALL FEES ARE SUBJECT TO CHANGE

***Students are responsible to make an appointment with their Physician allowing ample time for the required vaccinations, titers; as well as all requirements listed on the Health Form packet before the end of July prior to the second year. The Hepatitis B vaccine is a 3-part series, which takes approximately 6 months; so please plan accordingly. This form provides plenty of notice; there will not be any exceptions made for the due date of August 15th.

Upon entry into the Radiologic Sciences Major:

7. Agree to follow all rules and regulations as stated in the Radiologic Sciences Student Handbook.
8. A cumulative GPA of 2.5 AND programmatic GPA of 3.0 is required for **progression** into the major, starting with RS 100, fall freshman year and to continue in the major with academic good standing.
9. A cumulative GPA of 2.5 and a programmatic GPA of 3.0 must be maintained each semester. The expectation is that all RS courses be completed with a final course grade of B or better. 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 course work thereafter.
10. Assume responsibility for securing individual transportation to and from all clinical education settings. A list of potential placements is below.
11. Reveal any known allergies, which may impede a student from performing safely in a healthcare or laboratory environment. An example would be a Latex allergy.

Students with disabilities who wish to request reasonable accommodations throughout the program should contact the Coordinator of Learning Services in the Office of Student Accessibility. Quinnipiac University complies with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act. *

Radiologic Sciences Clinical Affiliates:

Advanced Radiology Consultants	Fairfield
	Shelton
	Stratford
	Trumbull
Comprehensive Orthopaedics and Musculoskeletal Care	Wallingford
	Meriden
Connecticut Orthopaedic Specialists, P.C./ The Orthopedic Group	Branford
	Hamden
	Hamden
	Orange
	Wallingford
Diagnostic Imaging Associates	Waterbury
Diagnostic Imaging of West Haven	West Haven
Gaylord Hospital	Wallingford
Griffin Hospital	Derby
YNHH- St. Raphael's Campus	New Haven
YNHH-Lawrence & Memorial Hospital	New London
Madison Radiology, PC	Madison
MidState Medical Center	Meriden
YNHH - Milford Hospital	Milford
Pequot Health Center	Groton
YNHH-Bridgeport Hospital Outpatient Radiology	Bridgeport
Saint Francis Hospital and Medical Center	Hartford
St. Vincent's Medical Center	Bridgeport
The University of Connecticut Medical Center	Farmington

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Yale- New Haven Health – Diagnostic Radiology	Guilford
	Hamden
	West Haven
	East Haven
	North Haven
	New Haven
The Radiology Group, PC	Hamden
	Branford
Whitney Medical Imaging	Hamden
	Hamden
West Haven Veteran's Affairs Medical Center	West Haven
Yale Physician's Building Diagnostic Imaging Room 178	New Haven

In addition to the above, the department has the following scholarship opportunities available during the summer session only:

Mater Misericordiae University Hospital	Ireland	Dublin
St. Vincent's University Hospital	Ireland	Dublin
Beth Israel Deaconess Hospital	Massachusetts	Boston
Cape Cod Hospital	Massachusetts	Cape Cod

Rev. 4/21 AG