

## Mission and Goals of the Radiologic Sciences Program

Quinnipiac University's Radiologic Sciences Program supports the mission statements of both the 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 the student's 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.

### GOALS AND OUTCOMES

***Goal 1: 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 2: 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 casestudy.

***Goal 3: 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 4: 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 5: 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.

## RADIOLOGIC SCIENCES PROGRAM ASRT PRACTICE STANDARDS & ARRT QUALIFICATIONS

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 Sciences Program will depend upon the ability to meet the technical standards, as outlined below.

Every student in the Radiologic Sciences 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 TJC. Students must review the Industry Standards for Prevention of Work-Related Musculoskeletal Disorders by the OSHA, CDC and TJC 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

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computer.

8. Ability to recognize, interpret, and respond to nonverbal behavior of self and others.

***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

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- 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.

*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.

**\*\*Please note:** 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 [here](#).

## 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

1. Candidates must be of good moral character
2. Conviction of a felony, or any other offense, misdemeanor, involving moral turpitude, may indicate a lack of good moral character. Those convicted of a crime must supply written explanation, including court documentation with the application of the examination.
3. Applicants will be allowed three (3) attempts to pass the certification examination. The three (3) attempts must occur within a 3-year period.

## PROGRAM REQUIREMENTS

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. The 3.0 programmatic GPA is required to progress into the major, starting with RS100 (Fall, 1<sup>st</sup> year).
- c. Successfully complete with a C- or better: BIO 101, BIO 102, BIO 103, or approved transfer equivalent
- d. Successfully complete MA 275
- e. Successfully complete one (1) Physics or (1) Chemistry lecture and lab course prior to RS 241 Radiographic Image Production and Evaluation

## ADDITIONAL PROGRAM COSTS

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

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 \$63.00 for all domestic addresses for the past 7 years or \$158.00 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 - \$32.00 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 \$150.00 per student for the current major (students are**



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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 \$35.00 for first year, \$10.00 per year after.**

## **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 15<sup>th</sup>.

Upon entry into the Radiologic Sciences Major:

1. Agree to follow all rules and regulations as stated in the Radiologic Sciences Program Student Manual.
2. A cumulative GPA of 2.5 AND programmatic GPA of 3.0 is required for **progression** into the major, starting with RS 100, Fall of the 1st year and to continue in the major with academic good standing.
3. 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.
4. Assume responsibility for securing individual transportation to and from all. clinical education settings. A list of potential placements is below.
5. 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 PROGRAM CLINICAL AFFILIATES/SITES

Site Name	Site Address
Advanced Radiology Consultants – Fairfield	1055 Post Rd: Fairfield, CT
Advanced Radiology Consultants – Shelton	4 Corporate Dr: Shelton, CT
Advanced Radiology Consultants – Stratford	2876 Main St: Stratford, CT
Advanced Radiology Consultants – Trumbull	15 Corporate Dr: Trumbull, CT
Beth Israel Deaconess Medical Center	330 Brookline Ave: Boston, MA
Cape Cod Hospital	27 Park St: Hyannis, MA
Comprehensive Orthopaedics & MSK Care – Meriden	455 Lewis Ave: Meriden, CT
Comprehensive Orthopaedics & MSK Care – Wallingford	863 North Main St Ext: Wallingford, CT
Connecticut Children’s Medical Center	282 Washington St: Hartford, CT
Connecticut Orthopaedics – Hamden, Washington Ave	9 Washington Ave: Hamden, CT
Connecticut Orthopaedics – Branford	84 North Main St: Branford, CT
Connecticut Orthopaedics – Guilford	450 Boston Post Rd: Guilford, CT
Connecticut Orthopaedics - Hamden	2408 Whitney Ave: Hamden, CT
Connecticut Orthopaedics – Orange	330 Boston Post Rd: Orange, CT
Connecticut Orthopaedics - Wallingford	701 North Colony Rd: Wallingford, CT
Diagnostic Imaging Associates	687 Campbell Ave: West Haven, CT
Gaylord Specialty Healthcare, Gaylord Hospital	50 Gaylord Farm Rd: Wallingford, CT
Griffin Hospital	130 Division St: Derby, CT
Massachusetts General Hospital	55 Fruit St: Boston, MA
Mater Misericordiae University Hospital	Eccles St: Dublin 7, Dublin, Ireland
Midstate Imaging Center, Cheshire Imaging	280 S. Main St: Cheshire, CT
Midstate Medical Center, Hartford Healthcare	435 Lewis Ave: Meriden, CT
St. Francis Hospital & Medical Center, Trinity Health of New England	114 Woodland St: Hartford, CT
St. Vincent’s Medical Center, Hartford Healthcare	2800 Main St: Bridgeport, CT
St. Vincent’s University Hospital, UCD School of Medicine and Medical Science	196 Merrion Rd: Elm Park, Dublin, Ireland
UConn John Dempsey Hospital	263 Farmington Ave: Farmington, CT
Veteran’s Affairs Medical Center – West Haven Campus	950 Campbell Ave: West Haven, CT
Whitney Imaging Center	2200 Whitney Ave, Suite 120: Hamden, CT
Yale New Haven Hospital	20 York St: New Haven, CT
Yale Radiology Guilford Orthopedics	800 Boston Post Rd, Bldg 3: Guilford, CT
Yale Radiology Milford Orthopedics	48 Wellington Rd: Milford, CT
Yale Radiology Wallingford Orthopedics	67 Masonic Ave: Wallingford, CT
YNHH – Lawrence & Memorial Hospital	365 Montauk Ave: New London, CT
YNHH – Lawrence & Memorial Hospital,	52 Hazelnut Hill Rd: Groton, CT

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Pequot Health Center	
YNHH - Bridgeport Hospital Outpatient Radiology	4699 Main St: Bridgeport, CT
YNHH – Bridgeport Hospital, Milford Campus	300 Seaside Ave: Milford, CT
YNHH – Yale New Haven Hospital, St. Raphael Campus	1450 Chapel St: New Haven, CT
YNHH – York Street Campus (YSC) OR	20 York St: New Haven, CT
YNHH – Radiology & Biomedical Imaging, East Haven	556 Main St: East Haven, CT
YNHH – Radiology & Biomedical Imaging, Guilford	111 Goose Ln: Guilford, CT
YNHH – Radiology & Biomedical Imaging, Hamden	2560 Dixwell Ave: Hamden, CT
YNHH – Radiology & Biomedical Imaging, Long Wharf	150 Sargent Dr: New Haven, CT
YNHH – Radiology & Biomedical Imaging, North Haven	6 Devine St: North Haven, CT
YNHH – Radiology & Biomedical Imaging, West Haven	500 Elm St: West Haven, CT
YNHH – Radiology & Biomedical Imaging, Yale Physician’s Building (YPB)	800 Howard St: New Haven, CT