

Radiologic Technology

Degree Type

Associate of Science

NHTI's Radiologic Technology degree program provides you with the knowledge and clinical skills to function as a radiographer using ionizing radiation to produce diagnostic images, which are interpreted by specialized physicians to detect disease or injury. You are placed in a variety of clinical settings to develop your clinical skills and knowledge. You gain competence in properly using x-ray equipment, positioning the patient, selecting technical factors, and practicing safely, providing optimal patient care in various settings such as hospitals, clinics, ERs, and ORs. You're taught to use prudent judgement and effective communication to care for patients and collaborate with patients and all members of the healthcare team.

Students who take courses designated as MC as part of their degree program can graduate with both an associate degree and a Mindful Communication certificate.

Do you have questions? Contact Amy VonKadich, department chair, at avonkadich@ccsnh.edu or 603-271-6484 x4332, or Kate Marcouillier, program coordinator, at kmarcouillier@ccsnh.edu. You can also contact Admissions at cjschofield@ccsnh.edu. To sign up for informational Admissions events, [click here](#).

Career Information

Graduates are eligible to take the national certification exam administered by the American Registry of Radiologic Technologists (ARRT) and find employment in hospitals and private clinics.

Admission Requirements

Apply for this program today on our [Admissions page](#) with step-by-step instructions and enrollment pathways build just for you!

Preference will be given to applicants whose applications are complete (with the exception of the interview) and received by the Admissions Office no later than Jan. 13, 2023, for the Summer 2023 semester. For the 2024 academic year, the deadline is Jan. 12, 2024.

- High school or college Biology with lab and Chemistry with lab, both with C or higher
- College prep Algebra I with a C or higher, or NHTI's MATH092C with a C or higher
- Personal interview, arranged by the Admissions Office once file is complete
- A completed course in **BLS CPR** from the American Red Cross, American Heart Association, or the National Safety Council. Online-only programs are not approved. For more information on CPR requirements, see [Health Services](#).

Admission to the Radiologic Technology program is competitive. Selection is determined by a cumulative point system based on the high school prerequisite courses and grades, and college courses and grades, in addition to the interview. The best qualified candidates will be invited to interview; interviews are limited to approximately double program capacity.

Students who wish to enter this program and are currently enrolled in General Studies or another NHTI program must complete the [Change of Program form](#) prior to the application deadline and submit it to the Admissions Office at NHTIadmissions@ccsnh.edu. Download the [Admissions Score Sheet here](#).

Curriculum

First Year

Summer Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
	Mathematics elective (MATH 120C or higher level)	4	0	4
RADT103C	Radiographic Positioning I	1	2	2
RADT109C	Introduction to Healthcare in Radiologic Technology	1	0	1
RADT180C	Radiographic Physics	3	0	3
	Subtotal Credits	9	2	10

Fall Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
BIOL195C	Anatomy and Physiology I	3	2	4
RADT116C	Radiographic Imaging Technology I	2	2	3
RADT151MC	Patient Care for the Radiographer	2	0	2
RADT159C	Radiographic Positioning II and Clinical Procedures I	3	26	9
	Subtotal Credits	10	30	18

Spring Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
BIOL196C	Anatomy and Physiology II	3	2	4
RADT164C	Radiographic Positioning III and Clinical Procedures II	3	26	9
RADT220C	Digital Processing and Computerized Tomography	2	2	3
	Subtotal Credits	8	30	16

Second Year

Summer Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
ENGL101MC	English Composition: Mindful	4	0	4
RADT165C	Radiographic Clinical Procedures III	0	23	5
RADT203C	Advanced Radiographic Procedures	3	0	3
	Subtotal Credits	7	23	12

Fall Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
	ENGL120MC/COMM120MC	3	0	3
PSYC105MC	Introduction to Psychology: Mindful	3		3
RADT123C	Radiation Protection	3	0	3
RADT294C	Radiographic Clinical Procedures IV	0	16	4
Subtotal Credits		9	16	13

Spring Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
PHIL242C	Contemporary Ethical Issues	3	0	3
RADT209C	Pathology and Cross-Sectional Anatomy	3	0	3
RADT295C	Radiographic Clinical Procedures V	0	16	4
Subtotal Credits		6	16	10
Total Credits				79

Additional Information

Accreditation

NHTI is accredited by the [Joint Review Committee on Education in Radiologic Technology \(JRCERT\)](#). The program was evaluated according to the Standards for an Accredited Educational Program in Radiography in 2022 and was awarded accreditation for a period of 3 years.

Contact information for JRCERT:

JRCERT

20 N. Wacker Drive Suite 2850
Chicago IL 60606-3182
312-704-5300
Mail@jrcert.org

Clinical Rotations and Obligations

The clinical coordinator will assign students two clinical sites: one for the first-year for Fall, Spring, and first half of senior Summer semester; and a second for the remainder of their education. Clinical hours are day time only and do not include nights/weekends.

Each student is required to provide their own transportation to and from the clinic. Students may be required to drive long distances to accommodate their clinic scheduling. Students must complete all orientation processes as assigned by their respective hospitals and are responsible for all costs. This includes health requirements for allied health clinical clearance, criminal background check, and drug and alcohol testing.

- **Criminal background checks are required prior to attending clinical placement and again prior to the second year. Checks are completed** through NHTI's approved vendor. Background checks from previous employers or other vendors are not accepted. No student is exempt. Students will be instructed as to when these checks are to be completed.
- **Complete drug and alcohol testing** may be required by the clinical site. These tests are completed through NHTI's approved vendor. Students will be instructed as to when these tests are to be completed

NHTI maintains a list of hospitals that have, through formal affiliation agreements, agreed to act as the clinical agencies through which NHTI students in this program complete the required clinical education. These agencies must also be approved by JRCERT. It is for this reason that only these hospitals may be used in conjunction with the Radiologic Technology program. [Click here for a list of approved clinical sites.](#)

The semester clinical grade comprises multiple assessment tools as listed in the course syllabus. A student must receive a 70 or greater for the clinical component to pass the course. If a student does not complete the requirements, they will be issued a no pass (NP). If a student is dismissed from the clinical semester because of performance or behavioral issues, they will be issued an AF. Any student receiving a failing grade in a clinical course will be dismissed from the program and is not eligible to reapply. Clinical practice is the essence of the profession and a failure in the clinical environment indicates that the student is not competent to continue in the program.

Download [Student Program Manual](#)

Essential Student Functions and Requirements

Essential functions have been established as a guidance tool for use in realistically informing the student of the minimum standards needed to satisfactorily function in the program and, ultimately, the profession. Applicants who feel they may not meet one or more of the essential functions listed below should contact program officials to discuss. If any of the below essential functions pose an issue, both a licensed physician directly caring for the student and NHTI Health Services clearance are necessary for participation in the clinic.

The student must have sufficient strength and motor coordination required to perform the following physical activities:

- Standing and walking constantly during the clinical day to accomplish tasks. Days can be up to 10 hours.
- Frequent reaching and manual dexterity in handling accessory equipment for diagnostic imaging purposes including typing on computer terminals
- Frequent bending and twisting
- Frequent overhead reaching, above shoulder level, to utilize radiologic equipment
- Ability to lift up to 50 pounds with frequent lifting/and or carrying objects up to 25 pounds
- Sufficient upper and lower body strength to assist patients; including transfer of patients from a wheelchair or stretcher to and from a chair or examination table. Patient transfer requires the ability to push/pull up to 200 (equipment and or patient).
- Manual dexterity to manipulate diagnostic imaging equipment, patient care equipment and computers frequently.

In addition, the student must have:

- No medical restrictions concerning the operation of diagnostic imaging equipment
- Sufficient hearing to distinguish different audio signals from equipment as well as assess patient needs
- Sufficient eyesight to observe patients, manipulate equipment and evaluate radiographic quality. Visual acuity sufficient to work with analyzing data and figures, small print, working with computer terminals, extensive reading, visual inspection involving small defects, small parts, and operation of machines. Vision must be maintained within dim lighting.
- Sufficient writing skills to communicate needs promptly and effectively. Ability to express or exchange ideas by means of the spoken word. Primary function includes activities in which the student must convey detailed or important spoken instructions to patients, physicians, families, and other employees, accurately, loudly or quickly.
- Ability to work with frequent interruptions and respond appropriately to unexpected situations
- Ability to work with wide variations in workload and stress levels
- Approval of the clinical facility if there is any question of meeting essential functions

Mindful Communication Options

Students who completed a non-Mindful Communication version of a course at another institution may be waived from the MC version of the courses at NHTI. Students who wish to opt-out of the Mindful Communication coursework may contact the department chair.

Program Learning Outcomes

The Radiologic Technology Program provides the highest standards of theoretical and clinical experiences for our students.

Students will be clinically competent.

- Students will obtain diagnostic quality images.

- Students will practice effective patient care including radiation safety.

Students will communicate effectively.

- Students will practice effective oral communication skills.
- Students will use clear and concise written communication.

Students will demonstrate critical thinking.

- Students will make corrections for positioning and/or technique.
- Students will adapt to new procedures and situations.

Students will demonstrate professionalism.

- Students will be respectful and tactful in all interactions
- Students will display ethical behavior when interacting with patients and all members of the healthcare team.