**110** *Allied Health/Nursing/Physical Education Division*

# RADIOLOGIC TECHNOLOGY

The radiologic technologist is the technical assistant to the radiologist, (a physician who specializes in the use of x-rays and radioactive isotopes). Since x-rays are an important tool for the diagnosis of disease, radiologic technologists are valued members of the health team.

## Admission Requirements

The applicant must meet the following requirements in addition to the general admission policies:

1. High school diploma or equivalency and submission of all application materials including high school transcripts, immunization records, and college transcripts, if applicable, no later than the application deadline.
2. Prerequisites:
* Minimum of having completed, within the last 5 years, high school algebra II with a grade of "C" or better AND a placement or SAT/ACT score above intermediate algebra; MAT\*H136 OR MAT\*H137 or college level equivalent with a grade of "C” or better.
* Minimum of having completed high school or college level Biology with a lab, or equivalent, within the last five years with a grade of "C" or better. Completion of an additional high school or college level science course within the last five years with a grade of "C" or better.
* (NVCC A & P I requires BIO\*H105 or BIO 115. The BIO\*H105 requirement may be achieved by successful completion of CLEP or examination administered by the Math/Science Division.)
1. Qualified achievement on College Placement Tests. Remedial courses must be completed before acceptance into the program.
2. Application deadline is January 15 of each year. All application and program deadlines are strictly enforced. Failure to adhere to deadlines will disqualify a candidate for consideration for admission.
3. Consideration for admission requires all minimally qualified applicants to attend a mandatory program information session. Applicants will be contacted to schedule attendance at a session. The deadline to register for an information session is strictly enforced.
4. Medical examination report by a physician (within three months of start of program) which describes the physical and emotional health of the applicant. Completion and verification of all required immunizations before beginning classes.
5. Demonstrated ability to perform the skills needed to be a radiographer as outlined in the program's Technical Standards.
6. Submission of all application materials including high school transcripts, college records and radiology program records when applicable.
7. Admitted students must provide proof of a Health Care Provider course in Basic Life Support (BLS) from the American Heart Association prior to beginning class. The Division of Continuing Education offers BLS courses throughout the summer.
8. Selection of candidates for admission is based upon academic history of the applicant. Overall high school and/or college GPA, Math GPA, Science GPA, and successfully completed general education courses in the radiology curriculum are used to rank candidates. A minimum GPA of 2.50 is required by all applicants seeking admission into the Radiologic Technology Program
9. The American Registry of Radiologic Technologists (ARRT) requirements concerning individuals with a previous criminal conviction may eliminate a student from sitting for the certification examination. A previous criminal record includes but may not be restricted to misdemeanor drug possession charges, DUI, felony convictions, military court martial, and proceedings where a plea of nolo contendere was entered. Individuals may contact the ARRT at (615) 687-0048 privately for clarification of their eligibility status. ARRT certification is required to obtain a radiographer’s license in Connecticut and many other states. Additional information may be found at [www.arrt.org.](http://www.arrt.org)

Additionally, all accepted students will be required to undergo a criminal background check prior to the start of the first-year fall semester. The student is responsible for the cost of the background check. Students who do not pass a criminal background check may be excluded from the clinical site and may not be able to meet the competencies required for the program. If you feel that this may apply to you, please consider your acceptance into the NVCC Radiologic Technology Program carefully. If you have any questions, please contact the program director at 203-575-8266.

Academic classes are scheduled during the day. Clinical experience is scheduled during the day and evening. This is based upon instructor availability and funding. Due to the extensive time requirements for classes, clinical, and studying, program faculty strongly recommend that, radiology students work no more than 20 hours a week. Faculty strongly advise applicants to consider the time requirements for studying, attending class, attending clinical, as well as their personal obligations before accepting admission.

In order to meet the educational objectives of the program as well as ensure the safety of the patient and student, attendance policies are strictly enforced.

## Readmission and Transfer

Candidates seeking readmission to the program must apply to the Program Director. Readmission requests are based on a total faculty review and vote. Students withdrawn for poor academic or clinical performance are not eligible to be readmitted. Consideration for readmission or transfer into the program can only be granted if there are available openings. Transfer students are required to submit official transcripts. Transfer admission is based on a minimum GPA of 2.50. Seat availability and completed course work and sequencing of the previously completed coursework with the NVCC Radiologic Technology Program's curriculum.

*Allied Health/Nursing/Physical Education Division* **111**

# RADIOLOGIC TECHNOLOGY

## The Curriculum

The Radiologic Technology Program is approved by the Board of Governors for Higher Education and the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, Il. 60606. (312) 704-5300. [www.jrcert.org](http://www.jrcert.org).

The curriculum is designed as a progression of increasing complexity. Therefore, all prescribed courses must be taken in sequence. Electives and core courses can be taken prior to the semester scheduled with the exception of the radiology courses. Clinical practicum is conducted in hospitals, offices, and imaging centers. It is necessary for the student to have adequate transportation. Students are required to purchase uniforms.

A minimum grade of “C” is required in all courses related to radiology and science courses. The faculty in the Radiologic Technology Program reserves the right to require withdrawal of a student from the Radiologic Technology Program whose clinical performance is unsatisfactory. Upon successful completion of all program requirements, students are eligible to take the American Registry of Radiologic Technologist Registry Examination. A minimum of sixty-eight (68) semester hours is required for graduation. Courses must be taken in the sequence below. General education courses may be taken before the assigned scheduled semester but cannot be taken afterwards.

*General Education Core course listings and definitions appear in the college catalog.. Additional courses may be required. The suggested sequence for full-time students is shown below.*

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| **Competency or Program Requirement** | **Course Number and Title** | Required Credits |
| **FIRST SEMESTER (fall/1st yr.)** |  |  |
| Critical Analysis and Logical Thinking/Written Communication | ENG\*H101 Composition | 3 |
| Scientific Knowledge◊ | BIO\*H211 Anatomy and Physiology I | 4 |
| Program Requirement | RAD\*H112 Orientation to Radiologic Technology | 3 |
| Program Requirement | RAD\*H197 Clinical Practice | 2 |
| **SECOND SEMESTER (spring/1st yr.)** |  |  |
| Scientific Reasoning◊ | PHY\*H110 Introduction to Physics | 4 |
| Social Phenomena | PSY\*H111 General Psychology I | 3 |
| Program Requirement | RAD\*H113 Radiologic Physics and Radiographic Quality I | 3 |
| Program Requirement | RAD\*H198 Clinical Practice | 2 |
| Program Requirement | BIO\*H212 Anatomy and Physiology II | 4 |
| **THIRD SEMESTER (summer/1st yr.)** |  |  |
| Program Requirement | RAD\*H114 Contrast Media Procedures and Radiographic Quality II | 3 |
| Program Requirement | RAD\*H199 Clinical Practice | 2 |
| **FOURTH SEMESTER (fall/2nd yr.)** |  |  |
| Oral Communication | COM\*H100 Introduction to Communications | 3 |
| Program Requirement | RAD\*H200 Radiologic Physics & Diagnostic Imaging Modalities | 3 |
| Program Requirement | RAD\*H222 Radiobiology and Protection | 3 |
| Program Requirement | RAD\*H297 Clinical Practice | 3 |
| Program Requirement | PSY\*H201 Lifespan Development | 3 |
| **FIFTH SEMESTER (spring/2nd yr.)** |  |  |
| Continuing Learning and Information Literacy/Ethics | CSA\*H105 Introduction to Software Applications | 3 |
| Historical Knowledge | Choose any Historical Knowledge listed | 3 |
| Written Communication | ENG\*H102 Literature and Composition | 3 |
| Program Requirement | RAD\*H215 Radiographic Pathology | 3 |
| Program Requirement | RAD\*H298 Clinical Practice | 3 |
| **SIXTH SEMESTER (summer/2nd yr.)** |  |  |
| Program Requirement | RAD\*H217 Seminar in Radiology | 3 |
| Program Requirement | RAD\*H299 Clinical Practice | 2 |

**Total Credits: 68**

*Any given course may only be used to satisfy one of the competency areas even if it is listed under more than one. At least one Scientific Knowledge and Understanding OR Scientific Reasoning course must have a lab component.*

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| ***Program Mission*** |

*The Radiologic Technology Program prepares students to enter the imaging sciences as an educated and skilled radiographer. The program, founded on close alliances with the professional community and the use of educational technology, creates a learning environment that prepares radiographers who:*

* + Combine efficiency and compassion when imaging patients.
	+ Practice in accordance with theoretical knowledge and essential skills.
	+ Maintain high ethical standards.
	+ Strive for continued development as a professional.
	+ Commit to clinical excellence.

***Associate***

***Degree***

***Programs***

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| ***Program Outcomes*** |

*The following goals further support the mission statement of the Radiologic Technology Program:*

* 1. Students will demonstrate effective communication skills.
	2. Students will demonstrate clinical competence when performing entry level imaging procedures.
	3. Students will exhibit professional growth and development.
	4. Students will combine critical thinking & problem solving skills during the performance of imaging procedures.
	5. The program will graduate students with entry level skills.

***Student Learning Outcomes:***

* + Students will demonstrate appropriate oral communication skills.
	+ Students will demonstrate written communication skills.
	+ Students will demonstrate appropriate personal and patient radiation protection.
	+ Students will accurately position patients.
	+ Students will demonstrate professional and ethical behavior.
	+ Students will value the importance of continued professional development
	+ Students will select technical factors when performing non-routine radiographic procedures.
	+ Students will choose appropriate positioning when performing non-routine radiographic procedures.

Clinical Affiliates:

* Bristol Hospital
* Charlotte Hungerford Hospital-A Hartford HealthCare Partner
* Danbury Hospital- Western Connecticut Health Network
* Diagnostic Imaging of Southbury
* Greater Waterbury Imaging Center
* Naugatuck Valley Radiological Associates, (West Main Street and Prospect locations)
* Orthopedics of New England
* Trinity Health of New England -St. Mary’s Hospital
* Waterbury Hospital