



**MIDDLESEX**  
Community College

# **Radiologic Technology** *Associate in Science*

**Fall 2020**

## **Program Information and Admission Requirements**

*Accredited by the  
Joint Review Committee on Education in  
Radiologic Technology, American Medical Association*

**Application Deadline:** Priority consideration will be given to completed applications (including all requirements and documentation) received by February 1, 2020. Final decisions will be made by April, 2020.

**Special Note Regarding Residency:** Non-Massachusetts residents will be admitted on a space available basis only.

## Program Description

The Radiologic Technology Associate in Science degree program reflects the combined efforts of educators and health care professionals in preparing students for entry into a professional specialty that is an important part of the health care delivery system. Program graduates are eligible for the national certification examination of the American Registry of Radiologic Technologists, licensing in the state of Massachusetts, and immediate entry into the radiology workforce. Individuals convicted of a crime may not be eligible for the American Registry of Radiologic Technologists certification examination. Students are provided a background in the technical skills necessary to produce quality radiographs used for diagnosis of disease and injury by radiologists and other physicians. Emphasis is placed on radiation safety principles and procedures, as well as concepts and theory. That knowledge is reinforced and put into practice through clinical experience in an area hospital. Theory is taught in logical sequence, guiding students through patient-centered activities related to producing radiographs. While in the program, students are given an opportunity to investigate other imaging modalities, such as computer tomography and magnetic resonance imaging. Many Radiologic Technology graduates continue their education, pursuing additional professional credentials.

## Career and Transfer Outlook

Program graduates, following licensure and registration, are prepared for immediate entry into employment as radiographers in hospitals, clinics, physicians' offices, mobile radiography companies and industrial radiography. With additional training, graduates may seek employment in computed tomography (CT), magnetic resonance imaging (MRI), interventional radiography, radiation therapy and management. Students may transfer many of their credits to a baccalaureate program, especially the general education courses.

## Standard Skills for Radiologic Technology

The following is a list of standard and/or technical skills required for performing duties in the Radiologic Technology field. These skills are not conditions for admission to the program, but do indicate abilities and characteristics necessary for successful completion of the Radiologic Technology program, and to perform the duties of the career upon graduation.

- Lift and carry 30 pounds of weight
- Transfer patients to and from wheelchairs, stretchers, beds or x-ray tables
- Reach overhead to a height of six feet
- Respond appropriately to sounds, for example, patient voice and movements, at a normal conversational volume and to equipment signals such as sound and light from a distance of fifteen feet
- Manipulate mechanical and patient care equipment, such as dials, switches, push buttons, keyboards, syringes and blood pressure equipment
- Perform duties for a prolonged period without breaks--typical shift of eight hours
- Differentiate among subtle shades of gray used in radiographic image formation
- Clearly and effectively communicate instructions and information to patients, and share information with other team members
- Working Conditions
  - Exposure to x-radiation
  - Exposure to bodily fluids

## Getting Started

Review and follow the Radiologic Technology Admission Requirements Certification form to ensure that you have met the admission criteria listed below:

- Completion of college Anatomy & Physiology I with lab, with grades of C or higher (73% or higher) within the last 5 years.
- Completion of a Radiologic Technology Supplemental Admission Application. See Supplemental Application form for details
- Eligible for ENG 101 and MAT 120; eligibility may be demonstrated through placement, current enrollment, or previous college coursework. Applicants who have graduated from high school in the last 3 years with an overall GPA of 2.7 or higher should provide an official transcript for evaluation regarding English requirement.
- Submission of three health recommendation forms from individuals who can evaluate your performance in a work or classroom setting  
One must be an academic recommendation form from a faculty member. Recommendations must not be submitted by family members
- Submit transcripts showing a cumulative GPA of 2.5 or higher
- It is recommended that applicants review the Radiologic Technology Program Student Handbook and Policy Manual available online ([www.middlesex.mass.edu/radiologic technology/](http://www.middlesex.mass.edu/radiologic%20technology/)) and in the college library before applying

## Submitting a Complete Application

If you meet the admission requirements, the following forms must be submitted by the application deadline of February 1, 2020.

- A signed and completed Radiologic Technology Admission Requirements Certification form
- A completed Middlesex Community College Application
- A completed Radiologic Technology Supplemental Admission Application form
- Three health recommendation forms
- An Official High School Transcript
- All Official College Transcripts (required from all colleges attended, except Middlesex Community College)

## Admission Information

Admission to the program is competitive. The availability of appropriate clinic placement sites, an integral component of the program, requires us to limit admission. In the Fall of 2019, only one of every six qualified applicants was offered admission. The admission committee will review application and supporting materials in their entirety. They may also consider other factors such as: success in college-level coursework, especially English Composition I, and Anatomy and Physiology II.

Non-Massachusetts residents will be admitted on a space available basis only. We were unable to admit any out of state residents in the Fall of 2019.

All Radiologic Technology classes are held during the day at Middlesex Community College's Bedford campus. Transportation to off-campus clinical sites is not provided.

## Requirements After Admission to Radiologic Technology

Students accepted to Health Programs must be in compliance with the current immunization requirements specified by the Massachusetts Department of Public Health for Health Care Personnel (HCP) and in accordance with state law, MGL, Chapter 76, Section 15C, and its regulations at 105 CMR 220.700 in order to participate in an externship placement or clinical experience.

- Students must submit the **Required Student Health Record** form, provided by Middlesex Community College. Required documentation of health status includes a completed physical examination, a two-step Mantoux (TB/PPD) skin test or blood test (T-Spot or Quantiferon Gold) for tuberculosis, a color deficiency test, proof of immunization against Measles, Mumps, Rubella, Varicella, a positive Hepatitis B titer, one lifetime dose of TDAP (Tetanus/Diphtheria/Acellular Pertussis – after 2006), and one dose of MenACWY meningococcal vaccine administered on or after 16th birthday for any newly enrolled full-time student 21 years of age or younger.
- Earn and submit a current certification in CPR at the Health Care Provider-level (offered monthly at MCC) which is valid for the entire academic year and renewed annually
- Students are expected to attend registration & orientation programs in the summer before classes begin
- Students will be required to attend a 6 hour observation at their assigned clinical site in the summer before classes begin
- Students will be asked to complete a CORI (Criminal Offender Record Information) and SORI (Sex Offender Registry Information) check. The results of the CORI/SORI check may impact the student's ability to participate in clinical courses
- Students must maintain a grade of C or better in all courses in the area of specialization and Anatomy & Physiology II to remain in the program
- Science courses must be taken within 5 years of entrance to the program to be accepted for credit toward the Radiologic Technology degree
- Students enrolled in the Radiologic Technology program must demonstrate a satisfactory level of performance in clinical settings in order to remain in the program. See the Academic Catalog for additional information
- **The Radiologic Technology program is a full time program that requires enrolled students to complete a summer internship after their second semester.**
- In addition to tuition costs, fees associated with program may include: Uniforms \$100.00, Equipment \$30.00 and clinical site parking fees up to \$30.00 per week
- Students must be willing to commute up to 100 miles at their own expense for Clinical Rotations

## Criminal Offender Record Information and Sex Offender Registry Information Checks

In order for a student to be eligible to participate in an academic, community or clinical program that involves potential unsupervised contact with children, the disabled, or the elderly, the student may be required to undergo a Criminal Offender Record Information (CORI) check and/or a Sex Offender Registry Information (SORI) check. Students found to have certain criminal convictions or pending criminal actions will be presumed ineligible to participate in such activities. The College is authorized by the Commonwealth's Criminal History Systems Board, pursuant to Massachusetts General Laws, Chapter 6, Sections 167-178B, to access CORI records. The College shall refer to regulations issued by the Commonwealth's Executive Office of Health and Human Services, 101 Code of Massachusetts Regulations 15.00-15.16, as guidance when assessing student CORI records. Sex Offender checks shall be performed pursuant to Massachusetts General Laws, Chapter 6, Sections 178C-178P.

For more information regarding the College's CORI/SORI check process, please contact Alisa Chapman, Director of Compliance at 781-280-3620 or at [chapmana@middlesex.mass.edu](mailto:chapmana@middlesex.mass.edu).

## Services Available to Middlesex Community College Students

Advising is available in our Academic Planning Centers. Academic advising is a valuable service, since all applicants are responsible for fulfilling the precise requirements of the program in order to be considered for admission. Advising appointments may be made by calling 1-800-818-3434.

Students are encouraged to apply for Financial Aid to help meet the expenses of attending college. The Financial Aid Office packages awards for each student, based upon the student's eligibility and financial need, fund restrictions and fund availability. General information is available at the Student Information Centers, or by calling the Financial Aid Offices in Bedford 781-280-3650 or Lowell 978-656-3242.

## Radiologic Technology Curriculum

Course Title	Course Number	Credits	Prerequisites
Introduction to Radiologic Technology	RAD 101	3	Eligible for ENG 101; completion of or concurrent enrollment in MAT 120
Imaging Procedures I	RAD 102	3	Eligible for ENG 101 Corequisite: RAD 103
Clinical Practicum I	RAD 103	3	Corequisite: RAD 102
Radiologic Physics	RAD 104	3	Completion of RAD 101; completion of MAT 120
Imaging Procedures II	RAD 105	3	RAD 102, Corequisite: RAD 107
Principles of Radiographic Quality	RAD 106	3	RAD 101, RAD 103
Clinical Practicum II	RAD 107	3	RAD 103, Corequisite: RAD 105
Clinical Practicum III (Summer)	RAD 108	5	RAD 107
Imaging Procedures III	RAD 201	3	RAD 106, RAD 105
Fundamentals of Radiobiology	RAD 202	3	RAD 106, RAD 104
Clinical Practicum IV	RAD 203	4	RAD 108
Topics in Radiography	RAD 204	3	RAD 202
Fundamentals of Computer Tomography	RAD 205	2	
Clinical Practicum V	RAD 206	4	RAD 103
English Composition I	ENG 101	3	Completion with a grade of B or better of ENG 088, ENG 089, ENG 092, or ENG 093; or placement by exam
English Composition II	ENG 102	3	C- in ENG 101
Anatomy and Physiology II	BIO 232	4	BIO 231 with a C or better
Introduction to Psychology	PSY 101	3	Eligible for ENG 101 and ENG 060 or higher placement
General Education Social Science Elective	_____	3	
General Education Humanities Elective	_____	3	
Math Modeling for Liberal Arts	MAT 120	3	Placement above or completion of MAT 080/ Math Modules 12, 73, or 82 with a C or better
Total credits		67	

**Department Chair:** William Darmody, M. Ed, R.T. (R) (MR), A.S. Northern Essex Community College, B.S., Franklin Pierce College, M. Ed; Salem State College.

**Clinical Coordinator:** Marianne Russell, B.A., R.T (R) A.S. Northeastern University, B.A. University of Massachusetts.