Radiologic Technology
Associate in Science

Fall 2016

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 December 4, 2015. Final decisions will be made by April, 2016.

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 computed tomography, magnetic resonance imaging, diagnostic medical sonography, nuclear medicine and radiation therapy. 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), diagnostic medical sonography, 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 a Radiologic Technology Supplemental Admission Application. See Supplemental Application form for details
Receive a minimum placement test reading score above 75
Eligible for ENG 101 and MAT 120; eligibility may be demonstrated through the college placement test or previous college coursework
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/) 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 December 4, 2015.

A signed and completed Radiology 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 2014, only one of every three qualified applicants was offered admission. Fall 2015 Admission information is not available at this time. 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, Anatomy and Physiology I and 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 2014.

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 must submit the Student Health Record form, provided by Middlesex Community College, to the Center for Health & Wellness. 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, Hepatitis B, Varicella, and one lifetime dose of TDAP (Tetanus/Diphtheria/Acellular Pertussis – after 2006)

■ 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 I & 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

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 MCC’s Human Resources Department at 781-280-3532.

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

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Number</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Radiologic Technology</td>
<td>RAD 101</td>
<td>3</td>
<td>Eligible for ENG 101; completion of or concurrent enrollment in MAT 120</td>
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<tr>
<td>Imaging Procedures I</td>
<td>RAD 102</td>
<td>3</td>
<td>Eligible for ENG 101</td>
</tr>
<tr>
<td>Clinical Practicum I</td>
<td>RAD 103</td>
<td>3</td>
<td>Corequisite: RAD 103</td>
</tr>
<tr>
<td>Radiologic Physics</td>
<td>RAD 104</td>
<td>3</td>
<td>Completion of RAD 101; completion of MAT 120</td>
</tr>
<tr>
<td>Imaging Procedures II</td>
<td>RAD 105</td>
<td>3</td>
<td>RAD 102, Corequisite: RAD 107</td>
</tr>
<tr>
<td>Principles of Radiographic Quality</td>
<td>RAD 106</td>
<td>3</td>
<td>RAD 101, RAD 103</td>
</tr>
<tr>
<td>Clinical Practicum II</td>
<td>RAD 107</td>
<td>3</td>
<td>RAD 103, Corequisite: RAD 105</td>
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<tr>
<td>Clinical Practicum III (Summer)</td>
<td>RAD 201</td>
<td>3</td>
<td>RAD 106, RAD 105</td>
</tr>
<tr>
<td>Advanced Imaging Procedures</td>
<td>RAD 202</td>
<td>3</td>
<td>RAD 106, RAD 104</td>
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<tr>
<td>Fundamentals of Radiobiology</td>
<td>RAD 203</td>
<td>4</td>
<td>RAD 108</td>
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<tr>
<td>Clinical Practicum IV</td>
<td>RAD 204</td>
<td>3</td>
<td>RAD 202</td>
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<tr>
<td>Topics in Radiography</td>
<td>RAD 205</td>
<td>2</td>
<td>RAD 201</td>
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<tr>
<td>Principles of CT</td>
<td></td>
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<tr>
<td>Clinical Practicum V</td>
<td>RAD 206</td>
<td>4</td>
<td>RAD 103</td>
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<tr>
<td>English Composition I</td>
<td>ENG 101</td>
<td>3</td>
<td>C- in ENG 071 or eligible for ENG 101 and placement above or successful completion of ENG 060</td>
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<tr>
<td>English Composition II: An Introduction to Literature</td>
<td>ENG 102</td>
<td>3</td>
<td>C- in ENG 101</td>
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<tr>
<td>Anatomy and Physiology I</td>
<td>BIO 231</td>
<td>4</td>
<td>Placement above 75 in CPT reading test and completion of or current enrollment in ENG 101. Completion of BIO 131 in the last five years with a C or better or placement of 73% or better on the A &amp; P prerequisite exam.</td>
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<tr>
<td>Anatomy and Physiology II</td>
<td>BIO 232</td>
<td>4</td>
<td>BIO 231 with a C or better</td>
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<td>Introduction to Psychology</td>
<td>PSY 101</td>
<td>3</td>
<td>Eligible for ENG 101 and ENG 060 or higher placement</td>
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<tr>
<td>Social Science elective</td>
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<td>3</td>
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<td>Humanities elective</td>
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<td>3</td>
<td></td>
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<tr>
<td>Math Modeling for Liberal Arts</td>
<td>MAT 120</td>
<td>3</td>
<td>Placement above or completion of MAT 080/ Math Module 12 with a C or better</td>
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**Total credits**: 71

**Program Coordinator**: 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.