



# Middlesex Community College

## Radiologic Technology Program Information Packet

Fall 2021

100 Training Hill Road  
Middletown, CT 06457-4889  
(860) 343-5800

[www.mxcc.edu/degrees/radtech](http://www.mxcc.edu/degrees/radtech)  
<http://mxcc.edu/future-students/selective-admissions/>

All potential applicants are strongly encouraged to attend an Information Session to learn more about the Program. A list of upcoming events is available at <http://mxcc.edu/future-students/selective-admissions/>.

Rev. 10/2020: Please disregard all previous versions of this Information Packet.

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## **Introduction**

Middlesex Community College's Radiologic Technology program prepares students for entry-level employment as Radiographers in hospitals, clinics, and medical offices. The program emphasizes that quality patient care will be provided by individuals who have received instruction based on educational and instructional guidelines consistent with the profession.

## **Middlesex Community College Mission**

In all it does, Middlesex Community College strives to be the college of its community. By providing high quality, affordable, and accessible education to a diverse population, the college enhances the strengths of individuals through degree, certificate, and lifelong learning programs that lead to university transfer, employment, and an enriched awareness of our shared responsibilities as global citizens.

## **Accessibility & Disability Services**

Middlesex Community College is committed to equal access for persons with disabilities. Academic adjustments are provided to students with disabilities to assure equivalent access to academic and campus programs. For information about academic adjustments and how to request them, please contact Hilary Phelps, Disability Support Services Coordinator (Founders Hall, room 121; 860-343-5879 or [hphelps@mxcc.edu](mailto:hphelps@mxcc.edu)). Ms. Phelps works with students to discuss individual requests, review the type of adjustments and services that MxCC will provide, and inform them about any documentation that may be necessary to arrange for certain adjustments. Students with disabilities are encouraged to contact Ms. Phelps at least one month before classes begin to avoid any delay in providing academic adjustments, especially when the college must arrange for external resources to provide the adjustments. Academic adjustments cannot be given retroactively. For further information, please visit [www.mxcc.edu/disability-services](http://www.mxcc.edu/disability-services).

## **Program Information**

Middlesex Community College School of Radiologic Technology is a full-time, 22-month program for students interested in a career in Radiography. The program accepts and starts a new class during the fall semester each year. Enrollment in the program is restricted by limited clinical facilities and strict JRCERT clinical capacity requirements.

Following the successful completion of all Program requirements and obligations to the college, students are awarded an Associate of Science – Radiologic Technology Degree and may sit for the national certification examination administered by the American Registry of Radiologic Technologists. Successful completion of the national certification examination with a minimum score of 75 is necessary for application to the State of Connecticut for licensing purposes as a Radiographer.

The program adheres to MxCC Student and Faculty Non-Discrimination policies in that there is no discrimination of student or faculty based on race, color, national or ethnic origin, religion, age, sex, marital or veteran status, sexual orientation, physical disability, or any other legally protected status.

Our graduates are allied health professionals who operate imaging equipment to obtain diagnostic radiographs for every part of the body. Employment opportunities include education, sub-specialization, sales and applications, and administration.

### **Accreditation**

The Middlesex Community College School of Radiologic Technology is accredited by The Joint Review Committee on Education in Radiologic Technology (JRCERT) and authorized by the Connecticut Board of Regents.

The Joint Review Committee on Education in Radiologic Technology  
20 North Wacker Drive, Suite 2850  
Chicago, IL 60606-3182  
(312) 704-5300  
[www.jrcert.org](http://www.jrcert.org)

The JRCERT Standards for an Accredited Program in Radiologic Sciences are available at [www.jrcert.org/programs-faculty/jrcert-standards/](http://www.jrcert.org/programs-faculty/jrcert-standards/)

### **Advisement**

Dr. Judy Wallace  
Professor of Biology/Anatomy & Physiology  
Coordinator, Radiologic Technology Program  
Wheaton Hall, room 209

(860) 343-5780  
[jwallace@mxcc.edu](mailto:jwallace@mxcc.edu)

### **Educational Advancement**

The Radiologic Technology Program supports the educational advancement of its graduates. Middlesex Community College offers post-primary certification programs in Computed Tomography, Mammography, and Magnetic Resonance Imaging. To learn more about these exciting opportunities and the admissions process for both, please visit our website: <http://mxcc.edu/future-students/selective-admissions/>.

## Application Process

Radiologic Technology is a selective admissions program. The deadline to submit all application materials (including all final official transcripts) to the Office of Enrollment Services at Middlesex Community College is **March 1, 2021**. *Late applications and transcripts are not accepted.*

All applicants are required to submit the following by the **March 1, 2021** deadline:

- ✓ **General Middlesex Community College application.**
- ✓ **Signed and completed Radiologic Technology Application.** The application is available online at <http://mxcc.edu/future-students/selective-admissions/> or at the Office of Enrollment Services (Founders Hall).
- ✓ **Proof of high school completion.** Submit an official final high school transcript or a photocopy of the high school diploma or **GED certificate**.
- ✓ **Official college or university transcripts** from all colleges ever attended. If you have completed courses at Middlesex Community College, you do not need to submit a Middlesex transcript.

All transcripts must be final transcripts. Students taking courses in the fall or winter semester must submit transcripts that include their fall & winter grades. ***You must submit all transcripts (including those with course withdrawals, course failures, and remedial/developmental courses) regardless of the age of the transcripts and applicability to the Radiologic Technology program. This includes any college credits earned while in high school.***

- **Minimum 2.7 Rad Tech GPA-** based only on the college courses with grades that meet the admission requirements and curriculum requirements of the Radiologic Technology Program. The Rad Tech GPA is a program-specific calculation and may differ from your college GPA. *(Please note: if an applicant is using a course from a Fresh Start Semester to meet a Rad Tech admission or program curriculum requirement, that course will count in the calculation of the applicant's Rad Tech GPA.)*
- Completion of **BIO\*211** (Anatomy and Physiology I) or equivalent, **with a grade of C+ or higher**, completed within five years prior+ to application deadline of **March 1, 2021**.
- Completion of **BIO\*212** (Anatomy and Physiology II) or equivalent, **with a grade of C+ or higher**, completed within five years prior+ to application deadline of **March 1, 2021** or completed during, but no later, than the spring semester of application year.
- Completion of **ENG\*101** (English Composition) or equivalent with a grade of C or better by the application deadline of **March 1, 2021**.

+ "Five years prior" is defined as having completed the course between December 2015 and March 22, 2021.

- ✓ **One-page personal statement:**
  - Must address the following topics:
    - Brief biography
    - Reason(s) for interest in the Radiologic Technology field
    - Reflection on the applicant's observation experience.
  - The personal statement should be submitted in Times New Roman 12 pt. font, double-spaced, and signed with an original (not computer-generated) signature.
  - ***Hand-written essays are not accepted.***
  
- ✓ **Mid-term grade report.** Students taking college courses during the spring 2021 semester must submit their mid-term grades before the March 1, 2021 deadline. Please see page fourteen for the mid-term grade report form.
  
- ✓ **Immunization Records**
  - Middlesex Community College requires documented proof of immunization (2 doses of each OR positive titer test results) for Measles, Mumps, Rubella (MMR) and Varicella (chicken pox). Clinical sites and Middlesex Health may require additional/more detailed immunization documentation.
  - Students must also have a two-step – Tuberculosis test record documentation within 1 year of the start of the program.
  - Clinical sites also require a non-reactive PPD test (Mantoux not more than one year old) and flu shot of all students. Additional immunizations may apply; students will receive additional information at the time of their acceptance into the program.

**Please note:** Due to restrictions imposed by the COVID-19 pandemic, observations will NOT be required for this application cycle.

## **Interview Process**

After the application deadline has passed, the Radiologic Technology Program Review Committee will review all applications to determine if the applicant is eligible for consideration. The Office of Enrollment Services will then contact eligible applicants if selected for an interview. Not all eligible applicants will receive an invitation to interview.

## **Selection Process**

Interviews use a prescribed question format. Upon completion of the interview, the top candidates (up to twenty-four students and alternates) will undergo a background check as discussed during the interview process. Based on the outcome of the background checks, up to twenty-four candidates will receive an invitation to join the program. Applicants not chosen for admission are encouraged to apply for the next academic year.

The alternates are on the Program waitlist for the incoming fall cohort that year. If an opening becomes available, before the start of classes, applicants will be selected (in rank order) from the waitlist and offered a spot in the Program. Applicants who refuse a spot in the Program are removed from further consideration. The waitlist dissolves at the start of the fall semester.

The waitlist will not carry over from year to year. Applicants who are not selected from the waitlist will need to submit a new application packet if they want to be considered for admission to the Radiologic Technology program the following year. Please review the college website for any updates regarding the admissions guidelines and process. Applicants may contact the Office of Enrollment Services to see what general application information is still on file.

The program starts in the fall semester each year. Decisions will be available by mid-May each year.

## MXCC Radiologic Technology Program of Study

The program of study reflects a full-time curriculum plan that matriculated students enrolled in the radiologic technology program are required to complete before graduation. Many students complete most of the general education courses before applying to the program. Non-radiology courses must be taken no later than the semester listed in the plan of study but may be taken earlier; radiology courses must be taken in the stated sequence. RAD\* courses scheduled for the summer session are mandatory courses toward the completion of the radiologic technology professional curriculum.

Students must earn a "C" or higher in all RAD\* designated and program courses with the exception of BIO\*211 and BIO\*212 which is a C+ or higher. Students who fail to complete required courses or meet the minimum grade requirement may be dismissed from the program. There may be prerequisite courses that must be successfully completed prior to taking listed courses. *It is the responsibility of the students to know and meet all requirements for graduation.*

### Program Admission and Prerequisite Courses (11 Credits)

#### ADMISSION REQUIREMENTS

**ENG\*101:** English Composition (3 credits) with a "C" or better

**BIO\*211:** Anatomy & Physiology I (4 credits) with a "C+" or better taken within the past 5 years.

#### PREREQUISITE REQUIREMENTS

**BIO\*212:** Anatomy & Physiology II (4 credits) with a "C+" or better taken within the past 5 years but no later than the spring semester of application year.

Semester 1, Fall (16 credits)		Credits
PHY*110	Introductory Physics	4
MED*125	Medical Terminology	3
RAD*105	Radiographic Anatomy & Procedures I	3
RAD*109	Methods of Patient Care I	1
RAD*171	Radiographic Clinical Practicum I	2
MAT*137	Intermediate Algebra	3

Semester 2, Spring (14 credits)		Credits
PSY*III	General Psychology I	3
RAD*209	Methods of Patient Care II	3
RAD*172	Radiographic Clinical Practicum II	2
RAD*219	Radiographic Equipment and Image Production	3
RAD*204	Radiographic Anatomy & Procedures II	3

Summer Session (7 credits)		Credits
RAD*240	Radiographic Clinical Practicum III	4
RAD*200	Radiologic Physics & Diagnostic Imaging Modalities	3

Semester 3, Fall (14 credits)		Credits
	Aesthetic Dimensions Elective*	3
RAD*222	Radiobiology and Protection	3
RAD*223	Pathology for Medical Imaging	2
RAD*206	Quality Assurance	3
RAD*241	Radiographic Clinical Practicum IV	3

Semester 4, Spring (6 credits)		Credits
RAD*271	Advanced Clinical Internship	6

Total Program Credits: **68 credits** (general education = 27 credits; RAD\* = 41 credits)

\*Effective fall 2017, students beginning the Rad Tech program should refer to the **Graduation Checklist** for updated information regarding options for this elective.

## **Program Mission Statement, Goals, and Student Learning Outcomes**

**Mission:** The Middlesex Community College Radiologic Technology Program is dedicated to educating and training students to become certified, professional, and competent technologists in the field of Radiologic Sciences.

### **Students will be clinically competent.**

Student Learning Outcomes:

- Students will correctly apply positioning skills for patient procedures based on patient assessment.
- Students will select appropriate technical factors for patient procedures based on patient assessment.
- Students will practice radiation safety.

### **Goal: Students will utilize critical thinking skills.**

Student Learning Outcomes:

- Students will correctly apply positioning skills for patient procedures based on patient assessment.
- Students will select appropriate technical factors for patient procedures based on patient assessment.
- Students will practice radiation safety.

### **Goal: Students will demonstrate professional behaviors.**

Student Learning Outcome:

- Students will demonstrate professional behaviors.

### **Goal: Students will communicate effectively.**

Student Learning Outcomes:

- Students will use effective oral communication skills.
- Students will practice written communication skills.

The Program's mission is achieved when the graduate has successfully completed and achieved all Program Goals and Outcomes. The program mission complements the missions and values of our clinical affiliates.

## Program Effectiveness Data

\*Note: Graduate follow up surveys are typically sent to graduates 6 months following graduation. Information is updated as graduate surveys are received and analyzed each year.

### Credentialing Pass Rate

Five-year average credentialing examination (American Registry of Radiologic Technologists Radiography exam) pass rate of not less than 75 percent at first attempt within 6 months of graduation. The credentialing examination pass rate is the number of graduates who, on the first attempt, pass the American Registry of Radiologic Technologists certification exam.

YEAR	PERCENT PASSING ON 1 <sup>ST</sup> ATTEMPT	NUMBER OF STUDENTS
2014	94%	17 of 18 students passed on the 1 <sup>st</sup> attempt within 6 months of graduation
2015	85%	11 of 13 students passed on the 1 <sup>st</sup> attempt within 6 months of graduation
2016	80%	12 of 15 students passed on the 1 <sup>st</sup> attempt within 6 months of graduation
2017	94%	16 of 17 students passed on the 1 <sup>st</sup> attempt within 6 months of graduation
2018	94%	17 of 18 students passed on the 1 <sup>st</sup> attempt within 6 months of graduation
5-year average= 90%		73 of 81 students passed on the 1 <sup>st</sup> attempt within 6 months of graduation

### Program Completion Rate

Program completion rate is defined as the number of students who completed the program within 150% of the stated program length. The program length is 22 months and completion rate is defined as those students graduating within 33 months of the beginning of the program. The entry point is the first day of the fall semester of the first year of the program. 80% of all students starting the program will complete the program.

YEAR	PERCENT COMPLETION	NUMBER OF STUDENTS
2014	95%	19 began; 18 graduated; 1 voluntary withdrawal
2015	87%	15 began; 13 graduated; 1 voluntary withdrawal; 1 academic dismissal
2016	79%	18 began; 15 graduated; 2 voluntary withdrawals; 1 academic dismissal
2017	94%	19 began; 17 graduated; 2 voluntary dismissals
2018	95%	19 began; 18 graduated; 1 voluntary withdrawal
5-year average	90%	90 began the program; 81 graduated; 7 voluntary withdrawals; 2 dismissed due to academics

## Job Placement Rate

Five-year average job placement rate of not less than 75% within 6 months (1 year starting in 2014) of graduation. The Joint Review Committee on Education in Radiologic Technology (JRCERT) defines job placement as the number of graduates who actively sought employment in the radiologic sciences.

\*Employment rate is defined as the number of graduates employed in the radiologic sciences compared to the number of graduates actively seeking employment in the radiologic sciences.

YEAR	PERCENT COMPLETION	NUMBER OF STUDENTS
2014	100%	8 of 18 sent surveys were completed and returned: 8 of 8 graduates were employed* within 1 year of graduation
2015	100%	3 of 13 sent surveys were completed and returned: 3 of 3 graduates were employed* within 1 year of graduation
2016	100%	8 of 15 sent surveys were completed and returned: 8 of 8 graduates were employed* within 1 year of graduation
2017	100%	12 of 17 sent surveys were completed and returned: 12 of 12 graduates were employed* within 1 year of graduation
2018	100%	5 of 18 sent surveys were completed and returned: 5 of 5 graduates were employed* within 1 year of graduation
5-year average	100%	81 graduates: 37 returned surveys; 37 graduates were employed within 1 year of graduation

## Technical Standards for Admission and Retention

Students with any type of impediment/disability (ADD, ADHD, learning, physical, psychiatric or anything else) with which you need assistance, you must contact Disability Support Services (DS) at 860-343-5879. DS information is available at <http://mxcc.edu/disability-services/>. Documentation must be supplied through Disability Services by all students requesting accommodations. For any accommodations to be considered, the student must file the impediment/disability with Middlesex Community College Disability Services (DS) and follow all DS procedures. If a student wishes to request special accommodations, they must follow the procedure listed on the DS website. Students are encouraged to contact Disability Services to allow enough time to process your request.

Standard	Examples
<b>Motor Skill:</b> The student must possess enough strength and motor coordination required to execute the movements and skills required to safely perform the functions of a radiographer for up to 10 hours.	The ability to: -Carry, reach, stoop, and lift up to 35 pounds -stand and walk without support up to 100% of the time while assigned to the clinical setting -demonstrate enough gross and fine motor coordination to respond quickly and efficiently to patients

<p><b>Sensory Ability:</b> The student must possess the ability to obtain information in the classroom, laboratory, or clinical settings. Visual Acuity (Minimum: Corrective 20/40 bilaterally)</p>	<p>The ability to:</p> <ul style="list-style-type: none"> <li>-visually monitor patient and equipment during procedures</li> <li>-visually assess computerized/radiographic images</li> <li>-visually use various digital and technological equipment and controls</li> <li>-visually prepare and administer contrast media and other medications as directed</li> <li>-hear effectively sounds of patient distress and patient monitoring devices and overhead communication</li> <li>-understand a normal speaking voice and to respond appropriately</li> </ul>
<p><b>Communication Ability:</b> The student will have the ability to accurately convey and interpret information in fluent English to patients and the healthcare team using various communication techniques (verbal, written, assisted (such as TTY) and/or electronic).</p>	<p>The ability to:</p> <ul style="list-style-type: none"> <li>-question a patient, family member, and /or caregiver, and relay information</li> <li>-verbally communicate to obtain an accurate clinical history, provide optimal patient care, and direct patients during procedures</li> <li>-demonstrate literacy sufficient to access information and to effectively document using technology</li> <li>-effectively interpret and process information</li> </ul>
<p><b>Professional Attitudes and Behaviors:</b> The student must demonstrate:</p> <ul style="list-style-type: none"> <li>-concern for others, integrity, ethical conduct, accountability, interest and motivation.</li> <li>-professional interpersonal skills with a diverse population (Cross-cultural competency)</li> </ul>	<p>The ability to:</p> <ul style="list-style-type: none"> <li>-remain focused on multiple details and tasks for up to 10 hours (the clinic shift.)</li> <li>-function effectively under stress and adapt to changing environments inherent in clinical practice,</li> <li>-make proper judgements regarding safe and quality care</li> <li>-maintain effective, mature, and sensitive relationships with patient, families, caregivers, students, faculty, staff and other professionals under ALL circumstances</li> </ul>
<p><b>Critical Thinking:</b> The student must be able to prioritize, organize and attend to tasks and responsibilities efficiently.</p>	<p>The ability to:</p> <ul style="list-style-type: none"> <li>-conceptualize human anatomy in three dimensions</li> <li>-collect, interpret, and analyze written, verbal, and observed data,</li> <li>-utilize basic mathematical concepts and arithmetic formula to perform exposure factor calculations and other technical problems related to radiographic image quality,</li> <li>-prioritize multiple tasks, integrate information and make appropriate decisions concerning patient care and equipment manipulations</li> <li>-understand and apply didactic theory of radiographic principles to their respective clinical applications</li> </ul>

\*\*\*The program reserves the right to require the applicant or student to physically demonstrate any of the above listed skill

## **IMPORTANT INFORMATION FOR STUDENTS ACCEPTED INTO THE RADIOLOGIC TECHNOLOGY PROGRAM**

### **CLINICAL SITES**

Clinical learning experiences are planned as an integral part of the program and are held at a variety of healthcare settings, such as hospitals, extended care facilities, and selected community health centers. Students are responsible for arranging their own transportation to and from assigned clinical sites. Clinical experiences may be assigned during daytime, evening, or weekend hours. Assignment of clinical sites is at the discretion of the faculty. Clinical sites could be within an hour radius of the college, and may require a mandatory parking fee.

### **CRIMINAL BACKGROUND CHECKS**

Several clinical sites are now requiring that criminal background checks be completed on any students who will be attending a clinical rotation at those facilities. Students found guilty of having committed a felony/misdemeanor may be prevented by a facility from participating in clinical experiences at particular clinical sites. If you cannot participate in a clinical rotation at an assigned facility, you may not be able to complete the objectives of the course and of the program.

### **HEALTH REQUIREMENTS**

All Radiologic Technology students must comply with all medical requirements and will be given supplemental information during the interview process.

### **WAIVER OF LICENSURE GUARANTEE**

Upon successful completion of the Associate Degree in Radiologic Technology, the graduate is eligible to take the licensure exam of the American Registry of Radiologic Technologists. Graduation from the Radiologic Technology Program does not guarantee licensure to practice.



## Mid-Term Grade Report

Students taking college courses at any institution during the spring 2021 semester are required to submit mid-term grades. Please bring this form to your current instructor/s, have each instructor sign the form, and indicate your current grade. Please note instructors must provide a letter grade (a range of grades is acceptable, for example: "A-/B+"). If you have any questions, please call the Office of Enrollment Services at 860-343-5719.

Student name: \_\_\_\_\_ Banner ID: @ \_\_\_\_\_

### Spring 2021 semester courses:

College/University: \_\_\_\_\_

Course Title: \_\_\_\_\_

Current grade: \_\_\_\_\_ Date: \_\_\_\_\_

Instructor's signature: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

College/University: \_\_\_\_\_

Course Title: \_\_\_\_\_

Current grade: \_\_\_\_\_ Date: \_\_\_\_\_

Instructor's signature: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

College/University: \_\_\_\_\_

Course Title: \_\_\_\_\_

Current grade: \_\_\_\_\_ Date: \_\_\_\_\_

Instructor's signature: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

College/University: \_\_\_\_\_

Course Title: \_\_\_\_\_

Current grade: \_\_\_\_\_ Date: \_\_\_\_\_

Instructor's signature: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

College/University: \_\_\_\_\_

Course Title: \_\_\_\_\_

Current grade: \_\_\_\_\_ Date: \_\_\_\_\_

Instructor's signature: \_\_\_\_\_

Email: \_\_\_\_\_ Phone: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_