Connecticut State Community College Middlesex

Radiography Program
Information Packet
Fall 2024

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

http://ct.catalog.acalog.com/preview_program.php?catoid=2&poid=374

https://ctstate.edu/how-to-apply

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 https://mxcc.edu/events/

Rev. 4/15/2023: Please disregard all previous versions of this Information Packet.

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Introduction
Middlesex Community College's Radiography Degree 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
Connecticut State Community College – Middlesex 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 (Chapman Hall; phone 860-343-5879 or hphelps@mxcc.commnet.edu). Ms. Phelps works with students to discuss individual requests, review the type of adjustments and services that CSCC - Middlesex 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/disablity-services .

Program Information
Connecticut State Community College Middlesex Radiography Program 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 (Joint Review Committee on Education in Radiologic Technology) clinical capacity requirements.

Following the successful completion of all Program requirements and obligations to the college, students are awarded an Associate of Science – Radiography 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 CSCC-Middlesex 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 Connecticut State Community College - Middlesex 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

The JRCERT Standards for an Accredited Program in Radiologic Sciences are available at www.jrcert.org/programs-faculty/jrcert-standards/

Advisement

> Donna Crum MS. RT (R)(CT)
> Coordinator, Radiography Program
> Wheaton Hall, room 209
>
> (860) 343-5880
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Educational Advancement

The Radiography Program supports the educational advancement of its graduates. Connecticut State Community College - Middlesex 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:

https://ctstate.edu/selective-admissions
https://ctstate.elluciancrmrecruit.com/Apply/Account/Login

Application Process

The Radiography Degree 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 **February 1, 2024.** *Late applications and transcripts are not accepted.*

All applicants are required to submit the following by the February 1, 2024, deadline:

- ✓ **General Connecticut State Community College application,** with Middlesex Campus of choice

- ✓ **Signed and completed Radiography Application.** The application is available online at https://ctstate.elluciancrmrecruit.com/Apply/Account/Login 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.*

  - o **Minimum 2.7 Rad Tech GPA (Grade Point Average)-** 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 Radiography admission or program curriculum requirement, that course will count in the calculation of the applicant's Radiography GPA.*)

  - o 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 **February 1, 2024.**

  - o 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 **February 1, 2024,** or completed during, but no later, than the spring semester of application year.

  - o Completion of **ENG*101** (English Composition) or equivalent with a grade of C or better by the application deadline of **February 1, 2024.**

  + *"Five years prior" is defined as having completed the course between December 2018 and February 1, 2024.*

- ✓ **Mid-term grade report.** Students taking college courses during the spring 2024 semester must submit their mid-term grades before the February 1, 2024, deadline. Please see page fourteen for the mid-term grade report form.

- ✓ **Immunization Records**
  - o Connecticut State Community College - Middlesex 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.

- o Students must also have a two-step – Tuberculosis test record documentation within 1 year of the start of the program.
- o 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 when accepted into the program.

Selection Process

Applications will be reviewed based on specific academic criteria and then placed into a Ranking System. The factors used to Rank Applicants will be:

1. The Final Grade of Anatomy and Physiology 1
2. The TEAs Exam Score
3. The overall Student GPA in Radiography Program Courses (typically English Composition, Anatomy and Physiology 1 and 2, College Algebra, and any additional courses taken at the time of application that are included in the program).

The top candidates (up to twenty-four students and alternates) will undergo a background check. 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.

NOTE: Our Program now is part of the CT State Radiography Program. When applying you indicate which is your PRIMARY school of choice (in this case Middlesex). However, if you are not in the top 24 for Middlesex but waitlisted as number 25 or 26, and another site (Manchester or Capital for example) has an opening, you may be offered a seat in the program at a DIFFERENT college location. You could accept this offer or wait to see if a spot opens in Middlesex.

The waitlist will not carry over from year to year. Applicants not selected from the waitlist will need to submit a new application packet if they want to be considered for admission to the Radiography Program next 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 required application information is still on file.

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

CSCC - Middlesex Radiography Program of Study

The program of study reflects a full-time curriculum plan that matriculated students enrolled in the Radiography 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 except for 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. *Students are responsible for knowing and meeting all graduation requirements.*

*Please see Next Page for Semester-by-semester breakdown of courses.

MxCC School of Radiologic Technology Curriculum Sequence

Program Admission and Pre-requisite Courses (11 Credits)

ADMISSION REQUIREMENTS **ENG1010(L): Composition (3 credits) with a C or better** **BIO2111: Human Anatomy & Physiology I (4 credits) with a C+ or better taken within the past 5 years.** **PRE-REQUISITE REQUIREMENTS** **BIO2112: Human 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 I, Fall (15 credits)		**Credits**	**Course Prerequisites**
RAD1001	**Introduction to Radiologic Science and Patient Care**	**3**	**Admissions to the program**
RAD1002	**Radiographic Procedures I**	**3**	**Admissions to the program**
RAD1002L	**Radiographic Procedures I Lab**	**1**	**Admissions to the program**
RAD1094	**Radiographic Clinical I**	**2**	**Admissions to the program**
MAT1600	**College Algebra**	**3**	**None; Co-req MATH0906 College Algebra Support (unless student places out) *** course alignment website and Math specific courses list are different**
CCS1001	**College Career and Success**	**3**	**Eligible for intensive-level English class or higher**
Semester II, Spring (17 credits)		**Credits**	**Pre-requisites**
PSY1011	**General Psychology I**	**3**	**Eligible for ENG 101**
RAD1013	**Advance Patient Care**	**2**	**RAD1001, RAD1002, RAD1002L, RAD1094**
RAD1010	**Radiographic Procedures II**	**3**	**RAD1001, RAD1002, RAD1002L, RAD1094**
RAD1010L	**Radiographic**	**1**	**RAD1001, RAD1002, RAD1002L, RAD1094**

	Procedures II Lab		
RAD1011	Imaging/Exposure I	3	RAD1001, RAD1002, RAD1002L, RAD1094
RAD1194	Radiographic Clinical II	2	RAD1001, RAD1002, RAD1002L, RAD1094
COM1301	Human Communication	3	

Summer Session (9 credits)		Credits	Pre-requisites
RAD2001	Radiographic Procedures III	3	RAD1013, RAD1010, RAD1011, RAD1194
RAD2001L	Radiographic Procedures III L	1	RAD1013, RAD1010, RAD1011, RAD1194
RAD1012	Imaging/Exposure II	3	RAD1013, RAD1010, RAD1011, RAD1194
RAD 1294	Radiographic Clinical III	2	RAD1013, RAD1010, RAD1011, RAD1194

Semester III, Fall (16 credits)		Credits	Pre-requisites
	ARTS/Humanities Elective	3	
RAD2002	Imaging/Exposure III	3	RAD2001, RAD2001L, RAD1012, RAD1294
RAD2002 L	Imaging/Exposure III L	1	RAD2001, RAD2001L, RAD1012, RAD1294
RAD2022	Radiobiology and Radiation Safety for the Radiographer	3	RAD2001, RAD2001L, RAD1012, RAD1294
RAD2015	Radiographic Pathology	3	RAD2001, RAD2001L, RAD1012, RAD1294
RAD2094	Radiographic Clinical IV	3	RAD2001, RAD2001L, RAD1012, RAD1294

Semester IV, Spring (7 credits)		Credits	Pre-requisites
RAD2090	Senior Seminar	3	RAD2002, RAD2022L, RAD2022, RAD2015, RAD2094
RAD2194	Radiographic Clinical Internship	3	RAD2002, RAD2022L, RAD2022, RAD2015, RAD2094

Total Program credits: Proposed 74 credits: General Education credits = 26 credits; Radiology credits = 49 credits

Program Mission Statement, Goals, and Student Learning Outcomes

Mission: The mission of the Connecticut State Community College Radiography Program is to provide a comprehensive radiography program that will graduate competent entry-level radiographers for the healthcare community.

Student Learning Outcomes: (Based on JRCERT accreditation standards)
Upon completion of the Program:

Goal 1: Student will demonstrate effective communication skills
  Students Learning Outcomes:
- Students will use effective oral communication skills with a wide variety of audiences in the clinical setting.
- Students will practice effective written communication skills.

Goal 2: Students will utilize critical thinking skills.
Student Learning Outcomes:
- Students will assess images for diagnostic quality
- Students will assess images and make appropriate adjustment(s) as needed

Goal 3: Students will be clinical competent when performing entry level imaging procedures.
Student Learning Outcomes:
- Student will accurately position patients for radiographic procedures based on patient assessment
- Students will select appropriate technical factors to obtain diagnostic quality images based on patient assessment
- Students will practice radiation safety.

Goal 4: Students will demonstrate professional behavior
Student Learning Outcomes:
- Students will demonstrate professionalism in the program
- Students will participate in professional activities with state and national organization

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.

Credentialing Examination Rate Year	Number passed on 1st attempt divided by the number attempt within 6 months of graduations. Results

Year 1 - 2019	14 of 14 - 100%
Year 2 - 2020	19 of 20 - 95%
Year 3 - 2021	20 of 21 - 95.2%
Year 4 - 2022	18 of 19 - 94.7%
Year 5 - 2023	17 of 21 - 80.9%
5-year Average	88 of 95 – 92.6%

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 (about 2 years), and completion rate is defined as those students graduating within 33 months (about 3 years) 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.

Completion Rate Year	Number of Students
Year 1 - 2019Annual Completion Rate	15 of 21 = 71.4%
Year 2 - 2020 Annual Completion Rate	20 of 23 = 86.9%
Year 3 - 2021 Annual Completion Rate	20 of 21 = 95.2%
Year 4 - 2022 Annual Completion Rate	21 of 24 = 87.5%
Year 5 - 2023 Annual Completion Rate	22 of 23 = 100%
5-year Average Completion Rate	112 began; 98 graduated = 87.5%

Job Placement Rate

Five-year average job placement rate of not less than 75% within 6 months 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.

Job Placement Rate Year	Number of Employed divided by number actively seeking employment within 12 months of graduation Results
Year 1 - 2019	16 of 16 = 100%
Year 2 - 2020	16 of 16 = 100%
Year 3 - 2021	8 of 8 = 100%
Year 4 - 2022	8 of 8 = 100%
Year 5 - 2023	13 of 13 = 100%
5-year Average	61 of 61 = 100%

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/
Students are encouraged to contact Disability Services to allow enough time to process your request.

Standard	Examples
Motor Skill: 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 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
Sensory Ability: The student must possess the ability to obtain information in the classroom, laboratory, or clinical settings. Visual Acuity (Minimum: Corrective 20/40 bilaterally)	The ability to: -visually monitor patient and equipment during procedures -visually assess computerized/radiographic images -visually use various digital and technological equipment and controls -visually prepare and administer contrast media and other medications as directed -hear effectively sounds of patient distress and patient monitoring devices and overhead communication -understand a normal speaking voice and to respond appropriately
Communication Ability: 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).	The ability to: -question a patient, family member, and /or caregiver, and relay information -verbally communicate to obtain an accurate clinical history, provide optimal patient care, and direct patients during procedures -demonstrate literacy sufficient to access information and to effectively document using technology -effectively interpret and process information
Professional Attitudes and Behaviors: The student must demonstrate: **-**concern for others, integrity, ethical conduct, accountability, interest, and motivation. **-**professional interpersonal skills with a diverse population (Cross-cultural competency)	The ability to: -remain focused on multiple details and tasks for up to 10 hours (the clinic shift.) -function effectively under stress and adapt to changing environments inherent in clinical practice, -make proper judgements regarding safe and quality care -maintain effective, mature, and sensitive relationships with patient, families, caregivers, students, faculty, staff, and other professionals under ALL circumstances
Critical Thinking: The student must be able to prioritize, organize and attend to tasks and responsibilities efficiently.	The ability to: -conceptualize human anatomy in three dimensions -collect, interpret, and analyze written, verbal, and observed data, -utilize basic mathematical concepts and arithmetic formula to perform exposure factor calculations and other technical problems related to radiographic image quality, -prioritize multiple tasks, integrate information, and make appropriate decisions concerning patient care and equipment manipulations -understand and apply didactic theory of radiographic principles to their respective clinical applications

***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 RADIOGRAPHY PROGRAM

CLINICAL SITES

Clinical learning experiences are planned as an integral part of the program and held at various 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 faculty's discretion. Clinical sites could be within an hour's 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 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 Radiography students must comply with all medical requirements and will be given supplemental information during the advising session after the student has been accepted into the program.

WAIVER OF LICENSURE GUARANTEE

Upon successful completion of the Associate Degree - Radiography, the graduate is eligible to take the certification exam of the American Registry of Radiologic Technologists and apply for the State of Connecticut Radiography License. Graduation from the Radiologic Technology Program does not guarantee certification and/or licensure to practice.

CT STATE
COMMUNITY COLLEGE

CT State Community College, Middlesex
School of Radiologic Technology

Mid-Term Grade Report

Students taking college courses at any institution during the spring 2024 semester must 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: _____ **Date:** _____

Spring 2024 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:
_____
_____
_____

CT STATE
COMMUNITY COLLEGE

College/University: _____

Course Title: _____

Current grade: _____   **Date:** _____

Instructor's signature: _____

Email: _____ **Phone:** _____
Comments:
_____
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College/University: _____

Course Title: _____

Current grade: _____   **Date:** _____

Instructor's signature: _____

Email: _____ **Phone:** _____
Comments:
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