



# Middlesex Community College

## Radiologic Technology Program

### Information Packet

### Fall 2015

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 Information Sessions can be found at <http://mxcc.edu/future-students/selective-admissions/>.

*Rev. 10/14*

## TABLE OF CONTENTS

Introduction	3
Program Information	3
Accreditation	4
Advisement	4
Application Process	5
Interview Process	6
Selection Process	6
Program of Study	7
Guidelines for one-page biography	8
Mid-Term Grade Report	9
Observation Guidelines	11
Observation Form	14
Program Mission Statement	15
Program Effectiveness Data	16
Technical Standards	17

## **Introduction**

Middlesex Community College's Radiologic Technology program is designed to prepare 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 quality instruction based on educational and instructional guidelines consistent with our 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 more information about academic adjustments and how to request them, please contact Ms. Hilary Phelps, Disability Support Services Coordinator (office: Founders Hall room 121; phone: 860-343-5879; email: [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. Please also note that 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 on the basis of 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 may be found at  
[www.jrcert.org/programs-faculty/jrcert-standards/](http://www.jrcert.org/programs-faculty/jrcert-standards/)

**Advisement**

Questions regarding Program advisement should be directed to:

July Wallace  
Professor of Biology/Anatomy & Physiology  
Coordinator, Radiologic Technology Program  
(860) 343-5780  
[jwallace@mxcc.edu](mailto:jwallace@mxcc.edu)

Office Location: Wheaton Hall, room 209

## Application Process

Radiologic Technology is a selective admissions program. All application materials (including all final official transcripts) must be sent to the Admissions Office at Middlesex Community College no later than April 1, 2015. ***Late applications and transcripts will not be accepted.***

**All applicants are required to submit the following by the April 1, 2015 deadline:**

- ✓ **General Middlesex Community College application** with \$20 application fee.
- ✓ **Signed and completed Radiologic Technology Application.** The application is available online at <http://mxcc.edu/future-students/selective-admissions/> or may be picked up at the Admissions Office (Founders Hall).
- ✓ **Proof of high school completion.** This may be done by submitting official high school transcript or a photocopy of your 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.
  - **Minimum GPA of 2.7.** The GPA is calculated by all college and university work completed by the applicant.
  - 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 April 1, 2015.
  - 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 April 1, 2015 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 April 1, 2015.
  - **Computer literacy.** This requires a passing score on a computer proficiency test or completion of CSA\*105, CSA\*106 or CSC\*101 or equivalent with a grade “C” or higher, completed prior to the application deadline of April 1, 2015.
- ✓ **Three letters of recommendation.** Letters should be from former or current employers or professors. All letters should be submitted on school or company letterhead and should include the applicant’s full name within the letter. Please note: **NO** peer or hand-written letters of recommendation will be considered.
- ✓ **One page biography/personal statement** stating the applicant’s goals & reasons for program entry. Please page seven for guidelines to writing a persona statement. ***Hand-written essays will not be considered.***
- ✓ **Written documentation of having spent time observing radiographers in their professional setting.** To arrange an observation at Middlesex Hospital, please contact Donna Crum or Denise Byron (before February 2015) at (860) 358-6549. To complete an observation at another facility, the Observation Form must be completed by the contact person at that facility.
- ✓ **Mid-term grade report.** Students taking college courses during the spring 2015 semester should have their mid-term grades sent before the April 1, 2015 deadline. Please see page eight for the mid-term grade report form.
- ✓ **Immunization record.** This includes documentation for Measles, Mumps, Rubella (MMR) and Varicella (chicken pox). Certain exemptions may apply. For example, students born on or before December 31, 1956 are exempt from the MMR requirement only. Students born in the United States before January 1, 1980 are exempt from the varicella requirement only. Students must also have a 2 step – Tuberculosis test record documentation within 1 year of the start of the program.

+ “Five years prior” is defined as having completed the course between December 2009 and April 1, 2015.

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

### **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. Eligible applicants will be contacted by the Office of Admissions if you have been selected for an interview. Not all eligible applicants will be contacted for an interview.

### **Selection Process**

Eligible applicants that have successfully navigated the interview process and a background check will be invited to join the Middlesex Community College Radiologic Technology Program. The program starts in the fall semester each year. Decisions will be available on or around May 15<sup>th</sup> of each year.

The Middlesex Community College Radiologic Technology Program does not have a waitlist. Each year a minimum of 30 eligible candidates are selected for an interview based on their academic standing, completion of the application process and completion of prerequisite course work. For applicants with pre-requisite courses in progress, consideration and acceptance is condition based upon successful complete of these courses.

Students are ranked by the interview team based on their answers to a prescribed question format. The top scoring nineteen (19) interviewees with a minimum of four (4) alternates are submitted for background checks. Based on the background checks, the top scoring nineteen (19) candidates will be invited to join the program. Those students not chosen during the interview session may apply for the next academic 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 pre-requisite 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 Pre-requisite 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.

**Computer literacy.** This requires a passing score on a computer proficiency test, or completion of CCC CSA\*105, CSA\*106 or CSC\*101 or equivalent with a grade “C” or higher, completed prior to the application deadline.

#### **PRE-REQUISITE 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.

<b>Semester 1, Fall (16 credits)</b>		<b>Credits</b>
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

<b>Semester 2, Spring (14 credits)</b>		<b>Credits</b>
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

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

<b>Semester 3, Fall (15 credits)</b>		<b>Credits</b>
	Elective: Humanities or Fine Arts	3
RAD*222	Radiobiology and Protection	3
RAD*215	Radiographic Pathology	3
RAD*206	Quality Assurance	3
RAD*241	Radiographic Clinical Practicum IV	3

<b>Semester 4, Spring (6 credits)</b>		<b>Credits</b>
RAD*271	Advanced Clinical Internship	6

Total Program Credits: **69 credits** (general education credits - 27 credits; RAD\* credits - 42 credits)

**Middlesex Community College/Middlesex Hospital  
Radiologic Technology Program**

**Guidelines for Writing Your Biography**

**Directions:** A one-page, typed biography is a required part of your application to the Radiologic Technology Program at Middlesex Community College. Please include your full name and banner ID at the top of your biography. You are strongly encouraged to carefully proofread, grammar check, and spell check your written work. Please note: **NO** hand-written essays will be considered.

**Content:** Please include the following information when preparing your biography. All information should be in paragraph form. Do not use a bullet format.

- **Personal/Professional Goals:**

- What influenced you to choose the field?
- Why are you interested in the Radiologic Technology Program to which you are applying?
- What are your plans after you receive your degree?

- **Academic Experience:**

- Describe your previous high school and college experience and how you will apply your prior academic skills to this program.
- Explain any inconsistencies in your academic record. For example, explain special circumstances that may have adversely affected your previous academic record with respect to grades, GPA, etc.

- **Work/Community Experience:**

- Explain how your prior work experience relates to your decision to apply to the program.
- Include any relevant volunteer work, additional shadowing experiences, or extracurricular activities.

- **Personal Qualities:**

- Discuss personal qualities that you possess that are pertinent to this profession and that you feel will help you in successfully completing this program.

- **Other:**

- Please feel free to share additional information, including an updated resume you deem relevant to your application.
- Please sign and date your essay before submitting.



**Middlesex Community College/Middlesex Hospital  
Radiologic Technology Program**

**Mid-term grade report**

Students taking college courses at any institution during the spring 2015 semester are required to submit mid-term grades. Please bring this form to your current instructor/s and 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 Admissions at (860) 343-5719.

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

**Spring 2015 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:** \_\_\_\_\_

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\_\_\_\_\_

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

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

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

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

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

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

\_\_\_\_\_

\_\_\_\_\_

## **Middlesex Hospital – School of Radiologic Technology Academic Observer Policy**

**Purpose:** Prospective radiography students are required to do a minimum of a two (2) hour observation in a radiology department prior to program admission. The requirements for persons to observe the operations of the radiology department, including direct observation of patient care.

**Scope:** Radiology department at a hospital.

### **Definition of Terms:**

The term ACADEMIC OBSERVER refers to any non-paid, visiting person, at least 15 years of age, from a recognized college, university, or high school, who is assigned to a specific radiography program student or radiology department staff member by the School of Radiologic Technology clinical coordinator to observe clinical operations of the Radiology Department for radiography program purposes.

The assigned radiograph program student or radiology department staff member will be responsible for the observer and ensure compliance with Hospital policies and procedures.

### **Process:**

Students who have completed the School of Radiologic Technology Observation Form and spoken with the School of Radiologic Technology clinical coordinator will *observe* patient care under the direct supervision of a radiography student or radiology department staff member. Such individuals are subject to the requirements and responsibilities for academic observing in accordance with this policy. Any person wishing to be an observer must notify the School of Radiologic Technology within a minimum of five (5) business days before planned observation. Due to the risks associated with certain hospital environments, observers are *not* permitted in the Operating Room or Critical Care Unit.

The requirements to be a School of Radiologic Technology academic observer are described below, broken out by School of Radiologic Technology and observer responsibilities.

### **School of Radiologic Technology Responsibilities:**

- When accepting a student to observe, the School of Radiologic Technology must receive and review the completed School of Radiologic Technology Academic Observation Form to the School of Radiologic Technology Clinical Coordinator at least five (5) days prior to the student's observation.
- Ensure that the student has completed all required paperwork. On the day of observation, all observers must obtain an observer badge, which can be picked up by the observer in the School of Radiologic Technology clinical coordinator's office. Any observer not in compliance with these requirements should be directed to the radiography program director before observation or sent home.
- For any patient observation, a verbal consent from the patient or surrogate is required before entering the room with the observer. Upon refusal in either instance, the observer must not enter the room under any circumstance.
- Ensure that the observer does not engage in any of the following activities:
  - Speaking with patients unless invited
  - Examining patients
  - Writing in or accessing patient charts
  - Advising clinicians or the patient regarding medical care or treatment
  - Participating in patient care in any manner

- Provide the student with guidance as to appropriate behavior and attire. The student is expected to wear business casual clothing and he/she is not permitted to wear open-toed shoes, tank/tube tops, t-shirts, jeans, cutoffs, shorts, sweats, perfume/cologne, dangling or inappropriate jewelry. Students with such attire will be sent home.
- Confirm that the observer has left any personal electronic devices capable of video, photography, or communication at home or inside their vehicle.
- Arrange the date and time with the academic observer at least five (5) days prior to observation.
- Provide a brief orientation to the Hospital's safety standards, infection control procedures, and HIPAA privacy concerns. All students will be given acknowledgement forms with more details about each policy and should have a basic understanding before arriving at the Hospital. Any non-compliance with such policies should be referred to the School of Radiologic Technology clinical coordinator and the observer should be sent home.
- Instruct observer to return his/her badge and sign out at the end of the observation with the School of Radiologic Technology Clinical Coordinator. If observing at a Middlesex Hospital satellite facility, the badge may be returned to School of Radiologic Technology clinical instructor before leaving the satellite facility. The observer will follow the outline procedure for the specific hospital they have gained the opportunity to observe.

### **Observer Responsibilities:**

- Observer will complete the School of Radiologic Technology Observation Form (if observing at a Middlesex Hospital site), which can be downloaded from the college webpage, and he/she must file a completed copy with the School of Radiologic Technology clinical coordinator at least five (5) days prior to the requested observation date.
- Observer understands that he/she will not be provided with liability or medical insurance nor qualify for workers compensation benefits if injured during the course of the observership. Observer will provide documentation that he/she has health insurance coverage which is valid in the United States.
- Observer will not provide medical care to patients which includes but not limited to performing the following functions: Take a medical history, perform physical examination, diagnose and treat a patient's condition, prescribe and administer drugs, write notes or orders in patient's chart, perform and assist in a procedure, bill for services rendered. Observer acknowledges that providing medical care to patients in violation of this agreement.
- Observer understands that he/she must be accompanied by their assigned radiography program student or radiology department staff member when observing patient care activities. Observer has no independent access to patients or to patient records (electronic or hard-copy).
- Observer must wear a temporary ID badge with an "***Academic Observer***" label and must return the temporary badge to the School of Radiologic Technology clinical coordinator or the clinical instructor if at a Middlesex off-site.
- Observer will provide documentation of current (within one (1) year of request for observation) basic immunization records to include: Rubella, Rubeola (measles), Mumps, Varicella (chicken pox), Tuberculosis (2 step), and Hepatitis B (optional).
- Observer agrees to refrain from patient care observation at any time observer has an infectious disease or condition that could be transmitted to patients.
- Observer, at Middlesex Hospital, will watch an orientation video.

- Observer will not disclose or discuss patient identifiable information with any persons except in accordance with applicable law, Hospital policies and with the approval of other healthcare providers involved in the patient’s care as needed to facilitate the observership experience.
- Observer assumes all costs incurred during observation hours, including meals, parking, etc.
- Observers are expected to dress appropriate business casual and are not permitted to wear open-toed shoes/high heels, tank/tube tops, t-shirts, jeans, cutoffs, shorts, sweats, perfume/cologne, dangling or inappropriate jewelry (ear rings or necklaces, visible body piercings). Students with such attire should be sent home.
- Observer is not permitted to carry any personal electronic devices capable of video, photography, or communication. All such devices should be left at home or in their vehicle.
- Observer releases Middlesex Hospital and its affiliates, trustees, officers, employees and agents from any responsibility or liability for personal injury, including death, and damage to or loss property that Observer may incur due to negligence of the Hospital and its affiliates, trustees, officers, employees and agents arising while Observer is in the Hospital.

\*\*\*\*\*

I will follow the Middlesex Community College School of Radiologic Technology Academic Observer Policy.

\_\_\_\_\_

Printed Name

Signature

Date

**\*Please mail or return form to the Middlesex Hospital School of Radiologic Technology at the above address at least 5 BUSINESS DAYS prior to observation.**

07/2010 djc  
Revised: 9/2014

**Middlesex Hospital – School of Radiologic Technology**  
**Observation Form**  
28 Crescent Street, Middletown, CT 06457

*This information will be kept confidential and used only in conjunction with this program.*

**Personal Information**

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First Name	Last Name
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Street Address	City	State	Zip
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Home Phone	Mobile Phone	Email Address
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**Academic Information**

Grade in school or highest level of education completed

School/College Name

Major / Concentration

## **Program Mission Statement**

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.

The mission statement is realized through the attainment of the following goals:

1. Students will be clinically competent.
2. Students will use critical thinking skills in both routine and non-routine clinical situations.
3. Students will demonstrate professional behaviors.
4. Students will communicate effectively.

### Student Learning Outcomes

1. Students will correctly apply positioning skills for routine patient procedures.
2. Students will make necessary adjustments in positioning for non-routine patient procedures.
3. Students will select appropriate technical factors for routine patient procedures.
4. Students will modify technical factors for non-routine patient procedures.
5. Students will practice radiation safety.
6. Students will use effective oral communication skills.
7. Students will practice written communication skills.
8. Students will demonstrate professional behaviors.

In addition to the above mentioned goals and student learning outcomes, benchmarks formulated to indicate Program effectiveness include:

- A first attempt ARRT credentialing exam pass rate of 100%
- Annual Exit Survey Evaluation Average of 90% for student satisfaction with their education
- Annual Employer Satisfaction Survey Average of 2.0 on a 3.0 scale for employer satisfaction with graduate's performance
- A five year average job placement rate within 12 months of Program completion of  $\geq 80\%$  (Effective 2014)
- 

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 affiliate sites.

**Program Effectiveness Data**

<b>Year</b>	<b># of Graduates</b>	<b>Program Completion Rate %</b>	<b>ARRT 1<sup>st</sup> Attempt Pass Rate</b>	<b>Class Average</b>	<b>Connecticut Average</b>	<b>Employment Rate (6 months post-graduation*)</b>
2002	6	50%	100%	85.3	84.1	100%
2003	9	69%	100%	91.5	84.0	100%
2004	15	83%	93%	86.9	85.4	100%
2005	16	84%	100%	90.7	86.1	100%
2006	14	88%	100%	89.6	86.2	100%
2007	17	94%	94%	87.8	85.1	100%
2008	12	71%	92%	86	86.2	100%
2009	15	83%	100%	88.1	86.8	100%
2010	13	81%	100%	90.3	86.3	100%
2011	12	75%	100%	88.7	86.3	100%
2012	8	43%	100%	87.4	85.3	100%
2013	17	89%	100%	84.3	84.1	100%

*\* 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.*

*\*\* Data not yet available*



## Technical Standards

Technical standards are the physical, cognitive, and emotional skills required to successfully complete the program and perform the functions of a radiographer. If selected, applicants will be required to undergo a physical exam and submit documentation that the accepted candidate can meet these requirements or provide reasonable adjustments.

- 1. Motor Skills:** The student must possess sufficient motor capabilities to execute the movements and skills required to safely perform the functions of a radiographer. These include, but are not limited to:
  - Standing and walking without support are required up to 100% of the time while assigned to the clinical setting,
  - Must be able to squat and rise without assistance,
  - Reach up to six feet off the floor,
  - Perform physically strenuous tasks to include raising patients in bed, moving, transporting, lifting, or transferring patients to/from tables, stretchers, beds or wheel chairs,
  - Manipulate, move, and adjust various equipment,
  - Perform all physical requirements with sufficient speed and accuracy while upholding established standards of procedure quality and patient safety.
  
- 2. Sensory Ability:** The student must possess the ability to obtain information in the classroom, laboratory, or clinical settings through observation, auscultation, palpation and other measures, including but not limited to:
  - Visual Acuity**
    - Correctable near vision 20/40 in both eyes,
    - Correctable far vision 20/40 in both eyes,
    - Ability to use computer terminals, other digital equipment, and various technological controls,
    - Ability to monitor a patient and equipment during procedures,
    - Ability to assess computerized/radiographic images,
    - Ability to interpret and access the environment.
  - Hearing**
    - Correctable hearing to pass a whisper test at 10 feet,
    - Ability to hear audible signs of patient distress, equipment operation/malfunction, overhead announcements, and safety warnings.
  
- 3. Communication Ability:** The student must be able to effectively communicate with peers, faculty, clients and their families, and other health care providers. This includes but is not limited to:
  - Ability to read at a competency level that allows one to safely carry out the essential functions of an assignment (examples: hand written chart data, printed policy and procedures manual),
  - Ability to effectively interpret and process information,
  - Effective verbal and written communication with clients and their families, and other health care professionals,
  - Effective verbal communication to provide optimal customer service, obtain accurate clinical history information, and direct patients during radiographic procedures,
  - Literacy sufficient to access information and to document and communicate effectively via computer.

4. **Behavior:** The student must be capable of exercising good judgment, and tolerating close and direct physical contact with a diverse population. This includes but is not limited to:
- The ability to foster and maintain cooperative and collegial relationships with classmates, instructors, other health care providers, clients and their families,
  - The ability to multi-task, handle stressful situations, and adequately respond to urgent client care and emergency situations,
  - To treat all clients and their families with maximum respect, empathy, and dignity.
5. **Critical Thinking:** The student must possess sufficient abilities in the areas of calculation, critical problem solving, reasoning, and judgment to be able to comprehend and process information within a reasonable time frame as determined by the faculty and the profession. The student must be able to prioritize, organize and attend to tasks and responsibilities efficiently. This includes but is not limited to:
- Conceptualize human anatomy in three dimensions,
  - Ability to 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,
  - Ability to prioritize multiple tasks, integrate information and make appropriate decisions,
  - Ability to act safely and ethically in the clinical college laboratory and in all clinical environments,
  - Understand and apply didactic theory of radiographic principles to their respective clinical applications.