RADIOLOGIC TECHNOLOGY

ASSOCIATE OF SCIENCE DEGREE PROGRAM

Radiologic Technologists produce images of the body using radiation and imaging technology. These x-ray images help physicians diagnose and treat a variety of medical conditions. The accurate production of such images is absolutely essential in modern medicine. Additional certifications for graduates may include: CT, Mammography, Ultrasound, MRI, Nuclear Medicine, Radiation Therapy, and Cardiovascular Procedures.

Accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182
Telephone: 312-704-5300; Email: mail@jrcert.org

"I transferred into KVCC's Radiologic Technology program and have the unique experience of comparing two college's Radiology programs. I found KVCC's program (including the clinical sites) to be 100% more thorough, welcoming, and encouraging. The instructors were experienced, helpful, approachable, and truly interested in my performance and future job placement."

What Radiologic Technology graduates do:

- Assist patients during imaging process



Create images essential to medical diagnoses



- Ensure patient safety
- Assist in the preparation and administration of contrast media
- Evaluate the quality of images
- Ensure proper infection control
- Perform diagnostic imaging in hospitals and clinics

Career Opportunities:

- Physician offices
- Travel companies
- Clinics
- Mobile imaging centers
- Hospitals

For further questions about this program, please contact: kvccadmissions@mainecc.edu

RADIOLOGIC TECHNOLOGY

Associate of Science Degree

First Semester

BIO213	Anatomy and Physiology I	4
MAT111	Quantitative Reasoning	3
RAD101	Radiographic Positioning I	3
RAD111	Clinical Practicum I	3
RAD121	Patient Care	3

Second Semester

BIO214	Anatomy and Physiology II	4
RAD102	Radiographic Positioning II	3
RAD112	Clinical Practicum II	4
RAD131	Radiographic Exposure I	3
RAD213	Radiographic Physics	3

Summer Session (8 Weeks)

ENG101	College Composition	3
RAD103	Radiographic Positioning III	2
RAD113	Clinical Practicum III	4

Third Semester

BIO216	Pathophysiology	3
COM104	Introduction to Communication	3
PSY101	Introduction to Psychology	3
RAD211	Clinical Practicum IV	5
RAD216	Introduction to Imaging	1
RAD220	Radiographic Exposure II	2

Fourth Semester

HUM___	Humanities Elective	3
RAD212	Clinical Practicum V	6
RAD214	Ethics and Quality Assurance	1
RAD218	Radiation Biology and Protection	2
RAD222	Senior Seminar for Radiologic	2

Total Credits **73**

CRITERIA FOR GRADUATION

Students must complete 73 credits in the Radiologic Technology program, achieve a minimum grade of "C" in all courses, and attain a final GPA of 2.0 or higher. (H) Suggested Elective. Please contact your advisor for more information.

RADIOLOGIC TECHNOLOGY

Associate of Science Degree

DESCRIPTION

The Radiologic Technology program provides education and training to individuals interested in the field of medical imaging. A Radiologic Technologist is a scientific artist who works as part of the health care team. With this art, they contribute to the diagnostic treatment of the patient. They assist the radiologist and are responsible for the accurate demonstration of body structures on a radiograph or other image receptor. The Radiologic Technologist determines the proper exposure factors, manipulates medical imaging equipment, and evaluates the radiographic images for quality assurance. The Radiologic Technologist assures patient protection and comfort as well as patient education during imaging procedures.

Successful completion of all academic and administrative requirements qualifies the student to receive an Associate of Science degree in Radiologic Technology. The radiologic technology degree qualifies the graduate for the American Registry of Radiologic Technologists (ARRT) registry exam and application for state licensure as a radiologic technologist in the state of Maine.

This academic program combines general education and radiologic technology studies in the classroom and clinical environment with simulation, laboratory, and clinical experiences in a variety of healthcare settings. Radiologic technology courses require students to participate in approximately 24 to 30 hours per week of classroom and clinical activities.

Radiologic technology courses are designed to be completed in a specific sequence which includes successful completion of prerequisites and corequisites each semester. Students must achieve a minimum grade of "C" before being permitted to progress through the curriculum. Students who are not successful in completing a radiologic technology course must withdraw from the radiologic technology program. A student who has been withdrawn may request to be considered for re-admission to the radiologic technology program one time only. Re-admission to the program is not guaranteed and will in part be determined by space availability.

For the most current program information, applicants can view the radiologic technology program handbook by visiting the program website at: https://www.kvcc.me.edu/academics/programs-of-study/radiologic-technology/

PROGRAM MISSION

The mission of the Radiologic Technology program at Kennebec Valley Community College is to educate and train competent entry-level Radiologic Technologists who will provide quality service for patients using safe radiation practices to produce the required images needed for medical diagnosis.

EDUCATIONAL OUTCOMES

- Goal: Students will be clinically competent.
  - Student Learning Outcome: Students will demonstrate appropriate positioning skills
  - Student Learning Outcome: Students will select appropriate technical factors
  - Student Learning Outcome: Students will utilize radiation safety.
- Goal: Students will demonstrate communication skills.
  - Student Learning Outcome: Students will demonstrate oral communication skills
  - Student Learning Outcome: Students will demonstrate written communication skills.
- Goal: Students will develop critical thinking skills.
  - Student Learning Outcome: Students will adapt procedures for non-routine patients.
  - Student Learning Outcome: Students will critique images to determine diagnostic quality.
- Goal: Students will model professionalism.
  - Student Learning Outcome: Students will consistently demonstrate professional behaviors.
  - Student Learning Outcome: Students will actively participate in learning experiences.

ADMISSION REQUIREMENTS

Please refer to the General admission guidelines which can be found on page 34 in the catalog. Additional admission requirements are as follows:

Immunization and CPR Requirements

1. Current CPR Certification - Basic Life Support (BLS) from the American Heart Association (AHA)
2. Proof of immunization against TDAP within the last ten years.
3. Proof of immunization against Measles, Mumps, and Rubella (MMR). If non-immune, two doses MMR vaccine is required for persons born after 1957.
4. Proof of immunization against Hepatitis Series B and Titre (6+ month process). If non-immune, a waiver is required.
5. Proof of immunization against chicken pox with a Varicella Titre. If non-immune, two doses of Varicella virus vaccine is required.
6. An influenza vaccine is required annually in the fall by health care facilities

Required Academic Standing

Students currently matriculated at KVCC must hold a cumulative GPA of 2.5 at the start of their first semester of program study. Students who are transferring must have achieved a cumulative GPA of 2.5 at their previous educational institution

Test of Essential Academic Skills (TEAS)

1. The TEAS exam is taken remotely and video monitored by ATI (the company that owns the TEAS). You must have access to a computer with video capability to take the TEAS.
2. Students register and pay for the test by setting up an account with ATI at www.atitesting.com and choosing a test date.
3. Students are responsible for having the results of their TEAS exam sent to kvccadmissions@mainecc.edu
4. The TEAS may only be taken three (3) times in total. In addition, the TEAS may only be taken twice in the same academic year (September 1 to August 31) with a minimum of 45 days between exam sessions.
5. Applicants who have not taken college courses before are strongly encouraged to reach out to the Admissions Office at 453-5822 or kvccadmissions@mainecc.edu before registering for the TEAS to determine the best time to take the TEAS.
6. Required Minimum composite score 64 percentile rank.
   - Minimum reading 73rd percentile rank.
   - Minimum math 69th percentile rank.
   - Minimum science 54th percentile rank.
   - Minimum English 63rd percentile rank

7. Upon successful completion of the above entrance requirements, students will receive an acceptance letter. Students must attend a required accepted student event scheduled in June. Students will be notified of the date for this session by the Radiologic Technology Department Chair. Failure to attend this required accepted student event will jeopardize the student's admission status.

PROGRAM INFORMATION

Criminal Background Checks
Applicants to certain programs need to note that a criminal background check will likely be required while enrolled in the program or as a condition of employment in the field. Certain internship and/or practicum sites, such as health care facilities, may limit or deny clinical privileges to those students who have a prior or current criminal record.

- Should a clinical facility refuse to permit a student to complete a clinical rotation based upon the student's criminal background check, the student may not be able to complete the program. In the event a student is denied placement at a clinical site the college will likely be required to enter an academic dismissal from the program.
- Additionally, certain licensing and credentialing boards may refuse to issue a license to practice based upon prior or current criminal offense (s). To learn more about whether the program or profession in which you are interested has such requirements or limitations, contact the appropriate Department Chair.

Finger Printing
Finger printing may be required by certain clinical or fieldwork placements. Students are responsible for the cost associate with securing fingerprints.

Infectious Diseases
Applicants who consider a career in Nursing or the Allied Health professions should be aware that during the course of their education and subsequent employment, they will be working in situations where exposure to infectious diseases is probable. This is an occupational risk for all health care workers. Persons should not become health care workers unless they recognize and accept this risk. Proper education and strict adherence to well- established infection control guidelines, however, can reduce the risk to a minimum. Thorough education in infection control procedures is an integral part of each health care program.

Exposure to Latex
Additionally, applicants should be aware that exposure to natural rubber latex (NRL) is likely. Individuals exposed to NRL products may develop allergic reactions such as skin rashes; hives; nasal, eyes, or sinus symptoms; and, rarely, shock.

Costs
Costs associated with required immunizations, criminal background checks, finger printing (when applicable) and admission testing are the responsibility of the applicant.

Clinical/Fieldwork Placement
Students may be scheduled for day, evening and night clinical/fieldwork experiences in some programs. It is expected that the student is able to make the necessary arrangements in order to complete all scheduled times. Placement is State-wide. The student is responsible for all travel and/or living related to the clinical or fieldwork experience.

Drug Testing
Drug testing may be a requirement of clinical fieldwork education sites. Students will be responsible for the cost of such testing if required by the site.



The **Radiography** program technical standards have been developed to inform students of the nonacademic essential functions of the program and profession. Examples are not all inclusive.

Standard	Essential Function	Examples
Communication Oral / Written	• Skills sufficient to communicate information and ideas so others will understand • Skills sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds	• Document relevant patient information (manual or via computer) using correct terminology and spelling • Interpret doctor's orders • Record critical information regarding patients' care • Establish rapport with patients, families, and other health care providers
Mobility / Motor Skills	• Motor skills sufficient to move the hands and use hands to grasp or manipulate small and large objects • Mobility sufficient to perform physical activities that require coordinated use of arms and legs and moving the whole body	• Use instruments and operate equipment locks, dials, and buttons • Maneuver in confined spaces • Physical activities may include: • Bending • Stooping • Lifting • Reaching • Pushing
Physical Strength and Stamina	• Ability to stand for extended periods of time • Ability sufficient to lift and carry up to 30 pounds	• Stand and walk up to 12-hour shifts • Lift and/or maneuver patients • Lift and move equipment • Wear a lead apron (6-15 lbs.) for up to 4 hours
Sensory **• Sight** **• Sound** **• Taste** **• Touch** **• Smell**	• Visual skills sufficient to see details at close range, manipulate equipment, and operate a computer • Discern information from computers, electronic devices, patient charts and printed documents over extended periods • Listening skills sufficient to communicate with others • Identify various sounds • Ability to touch and locate anatomy on patients • Ability to tolerate various odors	• Observe patients' condition • Differentiate between black, white, and shades of gray on a computer screen • Communicate in darkened radiographic rooms and operating rooms while wearing a surgical mask at distances up to 30 feet • Hear equipment/emergency alarms, call bell, or call for help • Listen to heart, lung, and blood pressure sounds • Feel for pulse • Perform radiographic examinations and physical assessments • Work with patients with poor hygiene
Environmental / Occupational Exposure	• Exposure to communicable and infectious diseases, secretions, blood, and bodily fluids • Exposure to environmental hazards • Exposure to X-ray radiation • Ability to work under high stress situations and respond promptly	• Possible exposure to HIV, hepatitis, etc. • Exposure to X-ray radiation, medicinal preparations, latex, and toxic substances • Respond appropriately in emergency to maintain patient safety and care
Field or Industry Professional Standards	• Criminal background check • CPR certification • Pass drug screening • Comply with American Registry of Radiologic Technologists (ARRT) Standards of Ethics	• Perform CPR • Adhere to ARRT Standards of Ethics