

Degree in Radiologic Technology

Program Details

The **Radiologic Technology Program** is a 21-month, competency-based program, preparing students for entry-level careers as radiographers in a variety of clinical settings. Accreditation has been granted by the Joint Committee on Education in Radiology Technology (JRCERT). Students who successfully complete the approved course of study are then eligible to apply for examination by the American Registry of Radiologic Technologists (ARRT).

The Radiologic Technology program is a selective and highly competitive admissions program. All applicants are reviewed by a committee using the rubrics to ensure fair and ethical selection practices.

Upon completion of the Radiologic Technology program, students should be able to apply principles of radiographic exposure with knowledge of anatomy, physiology, and positioning to determine the best demonstration of anatomical structures.

The technologist is also responsible for the care, protection, and comfort of the patient. Additional responsibilities include the ongoing monitoring of equipment safety and quality. This requires a level of professional judgment that necessitates quality academic and clinical training. Radiologic technologists are employed by hospitals, clinics, and private contractors.

Radiologic technologists are integral members of the health care profession. With recent advances in imaging technology, radiographers could broaden their professional opportunities in a variety of diagnostic modalities.

Students must be formally admitted into the Radiologic Technology program to take Radiologic Technology concentration courses. Radiology courses are sequential and must be completed in order. Admission to the program is selective and highly competitive.

Graduates earn an Associate in Science Degree.

Additional Information

The 4 credit "Biological Principles" course is a prerequisite for Anatomy and Physiology I and II. For additional information see information on "How to Apply" in the General Program Information page

Classes may be completed prior to applying for the Radiologic Technology Program. It is strongly urged that students complete these prerequisite classes which are used in the Rubric prior to applying. If a student wishes to take prerequisite courses first, applying into a Liberal Arts Associate Degree Program to do so is a good option.

Priority consideration is given to students who apply with Anatomy and Physiology I&II, English I&II, General Psychology or Principles of Sociology and College Algebra or higher with a grade of "B" or better.

Students contemplating a career in Radiology must be aware that if they have ever been convicted by a court of law, their records will be subject to review by the ARRT examination board.

Program Outcomes

The Massasoit Community College Radiologic Technology Program evaluates student learning and program effectiveness through measurable outcomes that reflect the knowledge, skills, and professional behaviors expected of entry-level radiographers. The program uses assessment data to monitor student achievement, identify areas for improvement, and maintain the quality and effectiveness of the program.

The following outcomes were adapted from JCERT Competencies. Upon completion of the Radiologic Technology Program, students will be able to:

1. **Clinical Competence:** Students will demonstrate clinical competence by accurately performing radiographic procedures, applying appropriate positioning and technical factors, producing diagnostic-quality images, and consistently applying radiation protection principles in accordance with ALARA.
2. **Critical Thinking and Problem Solving:** Students will demonstrate critical-thinking and problem-solving skills by evaluating radiographic images for diagnostic quality, recognizing and correcting technical errors, and adapting procedures appropriately for trauma, non-routine, and diverse patient conditions.
3. **Communication:** Students will demonstrate effective verbal, nonverbal, and written communication when interacting with patients, families, physicians, and members of the healthcare team.
4. **Professionalism:** Students will demonstrate professional and ethical behavior by providing compassionate patient care, maintaining confidentiality, demonstrating accountability and dependability, adhering to professional standards, and recognizing the importance of lifelong learning and professional development.

Academic Map

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A minimum of 27 classes and 74 credits is required. A minimum of 18 credits at Massasoit. Note: Each course completed and passed can only fulfill one program requirement. The same course cannot be used to satisfy multiple program requirements.

Semester 1

3 Credits in RADT 101
Introduction to Clinical Practice
1 Credit in RADT 111
RADT Anatomy and Positioning Lab I
2 Credits in RADT 133
RADT Anatomy and Positioning Lecture I
3 Credits in RADT 141
RADT Clinical Experience I
4 Credits in BIOL 201
Anatomy and Physiology I
3 Credits in ENGL 101
English Composition I
3 Credits in Math elective - College Algebra or higher

Semester 2

3 Credits in RADT 102
Image Production and Evaluation
1 Credit in RADT 112
RADT Anatomy and Positioning Lab II
2 Credits in RADT 120
RADT Principles of Digital Imaging
2 Credits in RADT 134
RADT Anatomy and Positioning Lecture II
3 Credits in RADT 142
RADT Clinical Experience II A
4 Credits in BIOL 202
Anatomy and Physiology II
3 Credits in ENGL 102
English Composition II

SUMMER

5 Credits in RADT 143
4 RADT Clinical Experience II B

Semester 3

2 Credits in RADT 105
Medical Imaging
1 Credit in RADT 113
RADT Anatomy and Positioning Lab III
3 Credits in RADT 131
Radiation Science I
1 Credit in RADT 137
RADT Anatomy and Positioning Lecture III
4 Credits in RADT 144
RADT Clinical Experience III
3 Credits in PSYC 101 or SOCI 104
General Psychology or Principles of Sociology

Semester 4

2 Credits in RADT 106
Seminar/Quality Control
3 Credits in RADT 132
Radiation Science II and Protection

3 Credits in RADT 138
RADT Pathology and Sectional Anatomy
2 Credits in RADT 140
Advanced Imaging Procedures
4 Credits in RADT 145
RADT Clinical Experience IV

This academic map is a suggested semester-by-semester guide to keep you on a clear path to program completion. Please note that some classes are offered only in certain semesters, have prerequisites, or minimum passing grades. Winter and/or Summer Session classes may be available for some classes. Your [academic advisor](#) will provide you with clear direction needed to stay on course and discuss scheduling options with you. Taking courses not reflected on this map may result in courses not counting toward the completion of your requirements.

Advisory Committee

This committee is comprised of healthcare professionals, radiologic technologists, educators, and industry partners who collaborate to ensure the program remains aligned with current clinical standards, certification requirements, and technological advancements in medical imaging. By offering expert insight into curriculum development, clinical training, and workforce trends, the committee plays a vital role in preparing students to become skilled, compassionate, and credentialed radiologic technologists. Together, we are committed to advancing excellence in radiologic education and supporting the health of our communities.

- **Catherine Powers Ozyurt Ph.D**
Dean of Health Sciences
Massasoit Community College
- **Anthony Kapadoukakis, Ph.D., R.T.(R),CT,QM, ASRT, ISRRT**
Department Chairperson/Professor
Massasoit Community College
- **Cheryl Burke, M.A, R.T.(R)(M)(CT)**
Clinical Coordinator
Massasoit Community College
- **Student Representative** – 1st year – TBA for each calendar year
- **Student Representative** – 2nd year – TBA for each calendar year
- **Ella Penny, A.S, R.T. (R) (M), R.N.**
Clinical Instructor
Brockton Hospital Signature Healthcare.
- **Daniel Dubovy, A.S, R.T.(R)**
Clinical Instructor
Morton Hospital, A Steward Family, Inc.
- **Jocelyn Charest, B.A.**
Manager of the South Coast Clinical Instructors
- **Cheryl Economos, A.S., R.T.(R)**
Clinical Instructor
Charlton Memorial Hospital
- **Kevin Doten**
Respiratory Instructor
Massasoit Community College