

# RADIOGRAPHY: MAGNETIC RESONANCE IMAGING

**Program code:** MRIC-CC

**Location:** Middlesex

## Program Description

The Magnetic Resonance Imaging (MRI) program at CT State Community College Middlesex is designed to prepare certified imaging professionals registered with the American Registry of Radiologic Technologists (ARRT) in Radiography, Nuclear Medicine (Nuclear Medicine Technology Certification Board (NMTCB) is also accepted), Radiation Therapy, or Sonography (American Registry for Diagnostic Medical Sonographers (ARDMS) is also accepted) for immediate employment in the workplace as Magnetic Resonance (MR) Technologists 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.

## Learning Outcomes

The CT State Middlesex MRI Program is dedicated to educating and training students to become certified, professional, and competent technologists in the field of MRI within Radiologic Sciences.

1. Students will correctly apply positioning skills for patient MRI procedures based on patient assessment.
2. Students will select appropriate technical factors for patient MRI procedures based on patient assessment.
3. Students will practice MRI safety.
4. Students will correctly apply positioning skills for patient MRI procedures based on patient assessment.
5. Students will select appropriate technical factors for patient MRI procedures based on patient assessment.
6. Students will practice MRI safety.
7. Students will demonstrate professional behaviors.
8. Students will use effective oral communication skills.
9. Students will practice written communication skills.

Our graduates are allied health professionals who utilize strong magnetic fields on humans for diagnostic, therapeutic or research purposes. They perform MRI procedures and related techniques producing data at the request of and interpretation by a licensed independent practitioner. Employment opportunities include education, sub-specialization, sales and applications, and administration.

MRI Certificate students must be certified/registered imaging professionals registered with the ARRT in Radiography, Nuclear Medicine Technology (registration with NMTCB is also accepted), or Radiation Therapy or Sonography (ARDMS).

This program prepares students to take the national MRI certification examination provided by the ARRT.

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request of and interpretation by a licensed independent practitioner. Employment opportunities include education, sub-specialization, sales and applications, and administration.

The program accepts and starts a new class during the fall semester each year. Following the successful completion of all Program requirements and obligations to the college, students are awarded the MRI Certificate and are eligible to take the ARRT post-primary exam in MRI. A minimum score of 75 on the ARRT post-primary certification examination is required for certification as a MRI Technologist.

*This certificate is not eligible for federal financial aid.*

This is a selective admission program; thus, students must be accepted into the program to register for program courses. A completed program application includes:

- official college/university transcripts from all colleges attended
- complete immunization records
- ARRT/NMTCB/ARDMS certification
- copy of a current State of Connecticut Radiographer license (as applicable)
- an interview

Detailed information regarding selective admission events and deadlines is available on the CT State Selective Admissions Webpage (<https://ctstate.edu/admissions-registration/how-to-apply/selective-admissions>).

## Certificate Requirements

Code	Title	Credits
<b>Required Courses</b>		
MRI/CAT 2001	Cross Sectional Anatomy I	1
MRI 2002	MRI Pathology I	1
MRI 2003	MRI Procedures and Instrumentation I	2
MRI 2004	MRI Image Quality, Equipment and Safety Essentials I	2
MRI 2094	Clinical Experience I	4
MRI/CAT 2005	Cross Sectional Anatomy II	2
MRI 2007	MRI Pathology II	1
MRI 2008	MRI Procedures and Instrumentation II	3
MRI 2009	MRI Image Quality, Equipment, and Safety Essentials II	2
MRI 2194	Clinical Experience II	4
<b>Total Credits</b>		<b>22</b>