

MAGNETIC RESONANCE IMAGING

Degrees Offered

Bachelor of Science in Medical Imaging & Therapeutic Sciences
Post-Baccalaureate Certificate in Magnetic Resonance Imaging

Length of Program

The University of Nebraska Medical Center, College of Allied Health Professions, Magnetic Resonance Imaging (MRI) program is 9-months of didactic and clinical experience for graduates of an accredited radiography program. Students who complete the program will be eligible to sit for the MRI Registry exam offered by the American Registry of Radiologic Technologists (ARRT). During the two semester curriculum students will gain knowledge, skills, and abilities in the following areas:

- Operating state of the art MRI scanners
- Cross sectional anatomy and pathology
- MRI pharmacology and venipuncture
- MRI safety
- MRI instrumentation and physics
- Patient care, safety, ethics, and law in the MRI profession
- MRI procedures and protocols

Students will gain over 900 clinical hours caring for patients, operating MRI equipment, and working with registered staff MRI technologists, radiologists, and allied health professionals. Students will document 49 MRI clinical competencies as per the requirements of the American Registry of Radiologic Technologists. Clinical competencies include patient care activities, MRI safety, MRI procedures, and quality control.

Degree Requirements

Students must successfully complete each course of the 2-semester, 9-month curriculum, requiring an average of 70% or above on all didactic and clinical courses unless specified otherwise in the syllabus. A minimum total of 120 semester credit hours is required for the Bachelor of Science degree in Medical Imaging & Therapeutic Sciences. **Students must transfer in a minimum of 88 semester credit hours, 32 semester credit hours of which come from specific prerequisite coursework and a maximum of 60 semester credit hours for their radiography curriculum.** Additionally, students will complete 32 semester credit hours in the MRI Program. Students must also successfully complete each course within the MRI curriculum in order to be considered for the Post-Baccalaureate Professional Certificate.

Magnetic Resonance Imaging Website (<https://www.unmc.edu/alliedhealth/education/mri/>)

Admissions

Magnetic Resonance Imaging

The mission of admissions in the College of Allied Health Professions is to advance evidence-based recruitment and admissions practices that are inclusive, equitable and balanced with respect to experiences, attributes and metrics to recruit and admit applicants for the purpose of preparing highly competent, collaborative and compassionate professionals dedicated to improving the health and healthcare of all individuals and communities.

For specific DMS admissions, application, and timelines, visit: [MRI Admissions \(https://www.unmc.edu/alliedhealth/education/mri/admission/apply.html\)](https://www.unmc.edu/alliedhealth/education/mri/admission/apply.html).

Curriculum

The program consists of lecture, demonstration, and clinical instruction. The 400 level courses are designated for students pursuing the Bachelor of Science degree while the 600 level courses are designated for students pursuing the Post-Baccalaureate Professional Certificate.

Fall		Credit Hours
MITS 410R or MITS 610R	SECTIONAL ANATOMY & PATHOLOGY I or SECTIONAL ANATOMY & PATHOLOGY I	4
MITS 419R or MITS 619R	MRI PHYSICS & SYSTEMS I or MRI PHYSICS & SYSTEMS I	2
MITS 425R or MITS 625R	MRI POSITION & PROTOCOL I or MRI POSITION & PROTOCOL I	2
MITS 451R	MRI SAFETY	1
MITS 465R or MITS 665R	MRI CLINICAL EDUCATION I or MRI CLINICAL EDUCATION I	6
Credit Hours		15
Spring		Credit Hours
MITS 411R or MITS 611R	SECTIONAL ANATOMY & PATHOLOGY II or SECTIONAL ANATOMY & PATHOLOGY II	4
MITS 419S	PROFESSIONAL PROJECTS I	1
MITS 420R or MITS 620R	MRI PHYSICS & SYSTEMS II or MRI PHYSICS & SYSTEMS II	2
MITS 441R or MITS 641R	MRI POSITIONING & PROTOCOLS II or MRI POSITIONING & PROTOCOLS II	2
MITS 466R or MITS 666R	MRI CLINICAL EDUCATION II or MRI CLINICAL EDUCATION II	6
MITS 450R or MITS 650R	MRI CAPSTONE or MRI CAPSTONE	2
Credit Hours		17
Total Credit Hours		32

The American Registry of Radiologic Technologists (ARRT) is the credentialing organization that recognizes individuals qualified in the use of ionizing and non-ionizing radiation to promote high standards of patient care in diagnostic medical imaging, interventional procedures and therapeutic treatment. The ARRT tests and certifies technologists and administers continuing education and ethics requirements for their annual registration.

Magnetic Resonance Imaging Website (<https://www.unmc.edu/alliedhealth/education/mri/>)

Certification and Licensure

ARRT Primary Disciplines of Certification

The ARRT provides certification in three primary disciplines of radiologic technology; Radiography, Nuclear Medicine Technology, Sonography, Magnetic Resonance Imaging and Radiation Therapy.

Certification

Upon completion of the Magnetic Resonance Imaging program at UNMC, graduates are eligible to apply for the national examination for certification offered by the ARRT.

For more information about the ARRT and requirements for certification and registration please contact:

The American Registry of Radiologic Technologists (<http://www.arrt.org/>)
1255 Northland Drive
St. Paul, MN 55120-1155
Phone: 651.687.0048

Licensure

Depending on the state in which you decide to practice, you may also be required to become licensed as a radiologic technologist. Each state has their own laws in regard to licensure. Individual states hold the authority to administer the license and grant individuals permission to practice radiologic technology within their state.

For more information on licensure in Nebraska, please click here (<http://dhhs.ne.gov/licensure/Pages/Medical-Radiography.aspx>).

Magnetic Resonance Imaging Website (<https://www.unmc.edu/alliedhealth/education/mri/>)