



Program of Study: Certificate of Completion in Magnetic Resonance Imaging

Program Description

The certificate of completion in Magnetic Resonance Imaging is designed to provide licensed radiologic technologists, nuclear medicine technologists, ultrasound technologists or licensed radiation therapists with a cognitive base of entry-level education in the practice of magnetic resonance (MR) technology. The professional practice of computed tomography requires specific knowledge and skills generally not obtained in basic educational programs in radiography. This core curriculum presents elements that are considered essential in educating technologists in the postprimary practice of magnetic resonance imaging and aid in meeting the eligibility requirements for a postprimary certification examination in magnetic resonance imaging.

Admission Requirements

The student must be registered in Radiography or Radiation Therapy by the American Registry of Radiologic Technologists (ARRT), Nuclear Medicine Technology by ARRT or the Nuclear Medicine Technology Certification Board (NMTCB), or Sonography by ARRT or any Sonography related modality by the American Registry For Diagnostic Medical Sonography (ARDMS).

Course Number	Course Title	Course Description	Credits
BIO 311	Sectional Anatomy	Content is designed to provide students with a review of the anatomy of the body systems from the cross sectional perspective via diagrams and radiographic images.	3
MDI 306	Physics and Instrumentation of Magnetic Resonance	Students will become familiar with the basic concepts of magnetic resonance physics. Content is designed to impart an understanding of the theories of magnetic resonance properties, their discovery, and initial applications in the clinical setting.	3
MDI 412	Magnetic Resonance Procedure Protocols	Content is designed to provide students with an understanding of MR tissue characteristics as they will be used in producing images. A body system approach including Musculoskeletal, Thoracic/mediastinal, Abdomen/Pelvis, and Central Nervous systems is used.	3
MDI 420	Pathology in CT/MRI	Content introduces the study of pathology and how this relates to CT and MR imaging. A body system approach is used.	3

Total Certificate of Completion in Magnetic Resonance Imaging Credits: 12