

ADVANCED MAGNETIC RESONANCE IMAGING (AMI)

AMI 201 # - Introduction of MRI, Patient Care, and Safety Units: 2

This course covers patient screening procedures, safety issues, and biological considerations, magnetic resonance (MR) terminology, and elementary imaging principles. Also covered is an introduction to patient care in the MR environment, including professional ethics, and patient communications.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Students must be ARRT credentialed, or have an Associate degree in an Allied Health field with permission of the program director.

Term Offered: Fall

AMI 236 # - Cross-Sectional Anatomy and Pathology for Imaging Professionals Units: 3

This course is a study of the human anatomy as viewed using cross-sectional images. This class is also used in imaging modalities like magnetic resonance imaging (MRI), computed tomography (CT), and ultrasound (US).

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Students must be ARRT credentialed, or have an Associate degree in an Allied Health field with permission of the program director.

Term Offered: Fall

AMI 238 # - Physics, Instrumentation, and Imaging for MRI Units: 3

This course is an introduction and exploration of MRI physics, instrumentation, and application.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Students must be ARRT credentialed, or have an Associate degree in an Allied Health field with permission of the program director.

Term Offered: Fall

AMI 246 # - MRI Procedures of the Central Nervous System Units: 3

This course is an exploration of the magnetic resonance imaging techniques of the Central Nervous System - head, neck and spine to include patient positioning, protocols, pulse sequences, and pathology.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Students must be ARRT credentialed, or have an Associate degree in an Allied Health field with permission of the program director.

Term Offered: Fall

AMI 248 # - Advanced MR Techniques and Post Processing Units: 3

This course explores advanced imaging techniques and new technologies in magnetic resonance imaging (MRI).

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: AMI 201, AMI 236, AMI 238, AMI 246, and AMI 250 completed with a C or better.

Term Offered: Spring

AMI 250 # - MRI Clinical Practicum I Units: 1-3

A planned clinical experience is provided which gives the student the opportunity to incorporate the theory presented in AMI 201, and other pertinent courses. The student will expand their clinical skills while performing magnetic resonance imaging procedures under the supervision of the clinical staff. Progression in the program is dependent on the student demonstrating clinical competence on a specific number of competency evaluations.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Students must be ARRT credentialed, or have an Associate degree in an Allied Health field with permission of the program director.

AMI 256 # - MRI Procedures of the Torso and Limbs Units: 3

This course is an exploration of the magnetic resonance imaging techniques of the Torso and Limbs - abdomen, pelvis, and musculoskeletal system to include patient positioning, protocols, pulse sequences, and pathology.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: AMI 201, AMI 236, AMI 238, AMI 246, and AMI 250 completed with a C or better.

Term Offered: Spring

AMI 260 # - MRI Clinical Practicum II Units: 1-3

A planned clinical experience is provided which gives the student the opportunity to incorporate the theory presented in AMI 201, and other pertinent courses. The student will expand their clinical skills while performing magnetic resonance imaging procedures under the supervision of the clinical staff. Progression in the program is dependent on the student demonstrating clinical competence on a specific number of competency evaluations.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: AMI 201, AMI 236, AMI 238, AMI 246, and AMI 250 completed with a C or better.

AMI 290 # - Internship in Advanced Medical Imaging Units: 1-3

A course designed wherein students will apply knowledge to real life situations in cooperation with the clinical education site and a faculty advisor to maximize learning experiences. A planned clinical experience is provided which gives the student the opportunity to demonstrate clinical skills in performing competency examinations in accordance to ARRT specifications in advanced modalities such as MRI, CT, Mammography, CVI, etc. These skills should include analysis, synthesis and evaluation of the examinations performed. Competency evaluations are based on ARRT standards for the specific modality in which the student is applying for advanced certification.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: Students must be ARRT credentialed, or have an Associate degree in an Allied Health field with permission of the program director.

Term Offered: Spring and Fall