

RADIOLOGIC TECHNOLOGY-MRI (RADM)

411. MRI Physics and Instrumentation. Credit 3 hours. Prerequisite: Physical Science 101. Provides an understanding of applied physics involved in Magnetic Resonance Imaging. Topics include magnets and magnetism, electromagnetic spectrum, pulse sequences, parameters, tissue characteristics and coil designs.

414. MRI Procedures. Credit 3 hours. Prerequisite: Admission into the Health Studies Clinical Option. Course presents procedure protocols utilized in acquiring various images of anatomical systems using Magnetic Resonance Imaging. Patient positioning, orientation, scan sequences, coils, and artifacts are discussed.

420. MRI Clinical Practicum I. Credit 5 hours. Prerequisites: Admission into the Health Studies Clinical Option. Course offers practical experience sequentially, in conjunction with RADM 413. Course will provide opportunities to integrate and apply acquired knowledge of MRI procedures in the clinical setting. Competency based assignments will be used to evaluate professional development.

424. MRI Clinical Practicum II. Credit 5 hours. Prerequisites: Admission into the Health Studies Clinical Option and RADM 414. A continuation of MRI Clinical Practicum I. Offers a practical clinical experience in obtaining competency in required MRI Procedures. This course will give the student opportunities to integrate and apply acquired knowledge of MRI procedures in the clinical setting. Competency based assignments will be used to evaluate professional development.