



Undergraduate Certificate Program in MRI

This program will help you complete your educational requirements and prepare for national certification examinations in magnetic resonance imaging. Students may enroll at any point in the curriculum and be finished in as little as three semesters. There is an optional clinical course for those needing competency requirements. This program is offered **100% ONLINE!**

ALHE 4610: Introduction to Health Care Quality

This course will define healthcare quality and the quality characteristics expected in high-performing healthcare organizations. A study of how healthcare quality is measured, assessed, and improved.

ALHE 4600: Teamwork and Leadership Challenges for the Healthcare Professional

Content is designed to provide the skills necessary for the healthcare professional to provide leadership in workplace performance and professional development to promote efficient and effective patient care.

OR

ALHE 4911: Advanced Certification Clinical

Students will be supervised in a clinical education setting to perform advanced imaging procedures. Emphasis will be placed on students competently performing those procedures unique to their advanced imaging modality.

ALHE 4950: Foundations in MRI & Patient Care

An introduction to the history of MRI, the MRI environment, MRI safety, patient care, and MRI pharmacology. Topics will include clinical issues regarding contrast administration and safety, magnetic field safety, MRI specific patient care and procedural considerations.

ALHE 4960: MRI Physics and Image Acquisition

An introduction to MRI physical principles, instrumentation, image formation and basic imaging parameters. This course covers the principles of magnetism, signal production, contrast characteristics, imaging planes and image formation. Emphasis will be placed on details of methods of data acquisition, imaging options, image artifacts, and quality assurance to ensure quality MR imaging and understanding.

ALHE 4970: MRI Procedures & Sequencing

Detailing the performance of standard MRI procedures. Content covers an in depth look at MRI sectional anatomy, physiology, imaging procedures, protocols, and pathology. The study of normal anatomy and pathologic conditions aid the student in recognizing the need for imaging changes based on these conditions. Content also includes optimal scanning techniques and procedures relating to the cardiovascular system, the central nervous system, the musculoskeletal system, thorax, abdomen, and pelvis.

RADS 3910: Sectional Anatomy

Presentation of human anatomy and pathology using computed tomography, ultrasound and magnetic resonance images.



**Flexible enrollment*

**No out of state tuition for 100% online students*

For more information:

email: SAH@nsula.edu

phone: 318-677-3020

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