

MEDICAL IMAGING, MAGNETIC RESONANCE IMAGING, ADVANCED TECHNICAL CERTIFICATE



Information

Medical Imaging Technology consists of three associate of Applied Science (AAS) degrees and three certificate programs.

The AAS degree programs are:

- Medical Radiography,
- Diagnostic Medical Sonography, and
- Magnetic Resonance Imaging.

The advanced or enhanced certificate programs are:

- Computed Tomography,
- Magnetic Resonance Imaging, and
- Mammography.

Students enrolling into San Jacinto College programs with external learning experiences (i.e., clinical, practicum, externship, cooperative, etc.) will be required to comply with the immunization requirements and policies of the clinical/external learning sites to engage in all clinical/external learning experiences. Vaccination requirements at clinical/external learning sites are implemented pursuant to the independent authority of such facilities and are not mandated by San Jacinto College. Failure to meet the immunization requirements mandated by clinical/external learning sites may limit a student's ability to complete the program and/or may delay the student's graduation date. San Jacinto College does not process exemptions, and students should address potential vaccination exemptions directly with the clinical/external learning site.

Advanced Technical Certificate

The MRI program builds a foundation of general principles for learning to operate magnetic resonance imaging equipment. The program focuses on building a sound understanding of the underlying scientific theory and routine clinical practice leading to the MRI certification exam. The MRI program also emphasizes the fundamental principle of magnetism and interaction of living matter with magnetic fields as well as introducing the concepts and scientific principles employed in MRI.

Purpose Statement

The purpose of the Magnetic Resonance Imaging Advanced Technical Certificate Program is to prepare students possessing certification with the American Registry of Radiologic Technologists (ARRT) or American Registry of Diagnostic Medical Sonography (ARDMS) for entry level employment in the field of magnetic resonance imaging with the knowledge, skills, and values to be a successful member of the health care community.

The program is committed to excellence in providing a comprehensive educational experience. The program curriculum is a balance of technical didactic courses, as well as supervised clinical experience at local hospitals and clinics. The program courses utilize both theory and competency-based educational components designed to prepare the student to become a magnetic resonance imaging technologist.

Upon successful completion of the Magnetic Resonance Imaging Advanced Technical Certificate Program, the student is eligible to apply for the certification examination given by the American Registry of Radiologic Technologists (ARRT).

The program effectiveness goals of the Magnetic Resonance Imaging Program are as follows:

1. Graduates will pass the national certification examination on the 1st attempt.
2. Graduates will be gainfully employed.
3. Students will complete the program within 3 semesters of program admission.
4. Employers will be satisfied with program graduates.
5. Graduates will be satisfied with the quality of their education received.

Student Goals and Student Learning Outcomes

The goals for the Magnetic Resonance Imaging program are as follows:

Goal 1: Students will demonstrate clinical competency.

1. Students will apply magnetic safety measures.
2. Students will produce magnetic resonance images of acceptable diagnostic quality.

Goal 2: Students will develop and apply critical thinking.

1. Students will adapt magnetic resonance procedures for nonroutine situations.
2. Students will critique images for diagnostic quality.

Goal 3: Students will develop and apply critical thinking.

1. Students will communicate effectively as a part of the health care team.
2. Students will be able to communicate through written correspondence pertaining to health care.

Goal 4: Students will model professionalism.

1. Students will analyze various health care scenarios to appropriately recognize and apply ethically sound decisions.
2. Students will exhibit professionalism by delivering unrestricted patient care regardless of various patient differences including age, gender, race, creed, social, cultural or economic status, abilities, personal attributes, or the nature of the health problem.