

MEDICAL RADIOGRAPHY, ASSOCIATE OF APPLIED SCIENCE



Information

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

The AAS degree programs are:

- Medical Radiography,
- Diagnostic Medical Sonography

The advanced or enhanced certificate programs are:

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

Students selected for any of the Medical Imaging programs are required to submit a physical exam prior to admission. This physical exam must be consistent with the requirements of the teaching hospitals and agencies the student is assigned during clinical assignments and the performance standards required to function as a student imaging technologist. The exam will also include documentation of any communicable diseases along with immunity to Rubella, Measles, Mumps, Varicella, and Hepatitis B. Additionally, completion of an updated Tetanus vaccine, an annual TB screening, and a seasonal flu vaccine are required. Clinical affiliates may require additional immunizations, titers, and documentation.

In addition to meeting all other requirements, a criminal background check and drug and alcohol screening are required for all health science students attending imaging courses, and are required prior to admission to the program. Students entering a Medical Imaging program will also be required to show proof of health insurance and current CPR (American Heart Association-Health Care Provider) certification. Students may contact the Medical Imaging department for details regarding the criminal background check and drug screening requirements.

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.

Medical Radiography

Purpose Statement

The purpose of the Medical Radiography program is to prepare students for entry level employment in the field of radiography with the knowledge, skills, and values to be a successful member of the health care community.

The Medical Radiography program is committed to excellence in providing a comprehensive educational experience.

The program curriculum is a balance of general education and technical courses, as well as supervised clinical/practicum experience at local hospitals and clinics. The Medical Radiography courses utilize both theory and competency-based educational components designed to prepare the student to become a radiologic technologist specializing in radiography. A radiologic technologist utilizes radiation to produce images of anatomical structures in the body.

Upon successful completion of the Medical Radiography program, the student is granted an AAS degree, is eligible to apply for the certification examination given by the American Registry of Radiologic Technologists (ARRT), and may obtain a license from the Texas Medical Board.

The program effectiveness goals of the Medical Radiography 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 two years of acceptance.
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 student goals for the Medical Radiography program are as follows:

Goal 1: Students will be clinically competent. Students will integrate appropriate patient positioning, patient care, radiation protection, equipment manipulation, and the knowledge and skills to produce diagnostic radiographic images in order to demonstrate clinical competence.

Student learning outcomes:

1. Students will apply the knowledge and skills to provide appropriate patient care.
2. Students will accurately set technical factors to provide quality radiographic images consistent with the needs of the exam.
3. Students will properly position patients for radiographic examinations.
4. Students will employ proper radiation safety methods consistent with the principles of As Low As Reasonably Achievable (ALARA) for the protection of the patients, staff, self, and general public.

Goal 2: Students will develop critical thinking skills. Students will execute proper application of the critical thinking skills necessary to provide quality radiographic images in a variety of healthcare situations.

Student learning outcomes:

1. Students will modify routine imaging procedures for non-routine or trauma examinations contributing as an effective member of the health care team.
2. Students will accurately critique images for appropriate anatomical demonstration and diagnostic quality.

Goal 3: Students will communicate effectively. Students will display competence in assessing clinical or professional situations and employ appropriate verbal and nonverbal communication skills consistent with the needs of the patients, staff, and peers.

Student learning outcomes:

1. Students will communicate verbally with patients and other health care professionals to meet patient and exam needs.
2. Students will display effective written communication skills consistent with the situation.

Goal 4: Students will model professionalism. Students will practice professional standards of conduct, demonstrate unrestricted care regardless of patient attributes and condition, and employ ethically sound decisions.

Student learning outcomes:

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.