MEDICAL RADIOGRAPHY, ASSOCIATE OF APPLIED SCIENCE

Program Information

A radiologic technologist is qualified in providing patient services using a variety of imaging equipment. The typical duties of the radiologic technologist include performing radiologic procedures for diagnostic interpretation, providing patient care, applying principles of radiation protection, evaluating radiographic images for technical quality and applying professional judgment.

The San Jacinto College medical radiography program:

• Educates and trains students for entry-level employment in radiography through on-site rotations in area hospitals and clinics;
• Teaches students to be clinically competent, possess critical thinking skills, communicate effectively, both written and orally and ethical and professional behavior; and
• Trains students in appropriate patient care, how to accurately set technical factors for radiographic examinations, demonstrate proper radiation safety, demonstrate the ability to modify imaging examinations for non-routine patients as well as critique images for diagnostic quality.

Career Opportunities

Employment outlook is excellent, and many of our students gain employment in the field prior to graduation. Our five-year average pass rate on the ARRT national registry exam is 94 percent on the first attempt.

Graduates of this program are employed in hospitals, clinics, and imaging centers.

Additional Information

Students are admitted on a competitive basis because clinical space is limited. Those seeking admission should first apply to San Jacinto College and gain acceptance to the College.

The medical radiography program holds information sessions throughout the year for those interested in the program. For dates and times of these information sessions, you can call the medical imaging department at 281-476-1871 or look for times posted on the San Jacinto College Radiography webpage (https://www.sanjac.edu/program/radiography). Attendance at an information session is required prior to application to the program. Program admission criteria and the selection process are explained at the information session.

Accreditation

The medical radiography program at San Jacinto College is accredited by:

The Joint Review Committee on Education in Radiologic Technology
20 North Wacker Dr., Suite 2850
Chicago IL 60606-3182
Phone: 312-704-5300
Email: mail@jrcert.org
Web: www.jrcert.org (http://www.jrcert.org)

Earning Potential

Radiologic Technologist average median salary: $61,892 per year


For more information contact 281-476-1871.

Campuses

Central Campus

Information

Medical imaging technology consists of three Associate of Applied Science (AAS) degrees and four certificate programs.

The degree programs include:

• medical radiography,  
• diagnostic medical sonography, and
• invasive cardiovascular technology.

The advanced or enhanced certificate programs are:

• computed tomography,  
• invasive cardiovascular technology,  
• 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, and Varicella. Additionally, completion of the Hepatitis B series along, updated Tetanus, an annual TB screening, and annual flu vaccine is required.

In addition to meeting all other requirements, a criminal background check and drug 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 Associate–Health Care Provider) certification. Please contact the...
medical imaging department for details about the criminal background check and drug screening requirements.

**Medical Radiography**

**Purpose Statement**

The purpose of the Medical Radiography Program is to educate and train students for entry level employment in radiography.

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 associate of applied science 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 Medical Radiography Program at San Jacinto College is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT)

20 N. Wacker Drive Suite 2850
Chicago, Illinois 60606

Phone: 312-704-5300
Email: mail@jrcert.org
Web: www.jrcert.org (http://www.jrcert.org)

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:

1. Students will be clinically competent.
2. Students will possess critical thinking skills.
3. Students will communicate effectively.
4. Students will demonstrate professionalism.

The student learning outcomes for the Medical Radiography Program are as follows:

1. Students will demonstrate appropriate patient care.
2. Students will accurately adjust technical factors for radiographic examinations.
3. Students will properly position patients for radiographic examinations.
4. Students will demonstrate proper radiation safety.
5. Students will demonstrate ability to modify imaging examinations for non-routine patients.
6. Students will critique images for diagnostic quality.
7. Students will demonstrate effective oral communication skills.
8. Students will demonstrate effective written communication skills.
9. Students will demonstrate professional behavior.
10. Students will demonstrate ethical behavior.

**Program Admission Criteria**

This is a selective admission program. A limited number of students are admitted into the program three times a year. Class size is determined by the availability of clinical space. Limited enrollment ensures a quality laboratory and clinical experience needed to become a competent entry level radiographer. To be considered for selection to the Medical Radiography Program the following steps must be completed:

2. Provide Official Transcripts
   a. High School Diploma or GED Certificate required.
   b. Students with any transfer credits must have college transcripts analyzed by San Jacinto College (enrollment services transcript evaluation) prior to submitting an application.
   c. Medical Imaging Department Chair has final approval of all transferred courses that apply toward the degree in Medical Radiography.
   d. Transcripts from other colleges must be official and sent to:
      i. Office of Enrollment Services, and
      ii. Medical Radiography Office

Completion of all of the following prerequisite courses with a minimum of a “C” before admission to the program.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>RADR 1201</td>
<td>Introduction to Radiography</td>
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<tr>
<td>ENGL 1301</td>
<td>Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1314</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2301</td>
<td>Anatomy and Physiology I (Lecture)</td>
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<tr>
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<td>Anatomy and Physiology I (Lab)</td>
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Any of the following support courses requires a minimum of a C also and if not achieved the course must be retaken until successful.

- PSYC 2301 General Psychology
- Humanities and Fine Arts

In order for credit earned in a required biology course to be applied to the radiography program, credit must have been earned within five (5) years of the first term in which the student enrolls in the program and with an earned grade of a C or above. In order for credit earned in a required RADR 1201 Introduction to Radiography course to be applied to the radiography program, credit must have been earned within three (3) years of the first term in which the student enrolls in the program and with an earned grade of a C or above.

Higher level math such as Calculus may be evaluated for possible substitution if a student was placed out of college algebra. A higher level English course may be evaluated for possible substitution if a student was placed out of college algebra.
has placed into a higher level English. Substitutions must be approved by
the Department Chair and Dean of Health Sciences.

Completion of the program required entrance examination (HESI A2)
must be submitted with application. A cumulative score of 70% and a
score of 70% in each section is highly recommended.

Attend a mandatory information meeting as posted on the San Jacinto
College Radiography webpage (https://www.sanjac.edu/program/
radiography) or by calling 281-476-1871 for dates.

Receive and complete a Medical Imaging application by deadline of June
1, October 15, or March 8.

**Selection Criteria**

Students who apply for admission to the Medical Radiography Program
will be selected based on the total score on the application rubric to
include both GPA and HESI A2 entrance examination scores. Meeting
minimal entry requirements does not guarantee program admission.

**Application Periods**

The Medical Radiography Program accepts applicants three (3) times a
year.

Application periods are:

April 1 through June 1, for fall admission;

September 1 through October 15, for spring admission; and

January 15 through March 8 for summer admission.

Applicants will be notified regarding their selection for admission into
the Medical Radiography program. Applicants not selected for admission
must re-apply to be considered for future admission. Applicants who are
selected for admission into the Medical Radiography program, but do not
accept the position or do not complete the enrollment process must also
re-apply. It is the student’s responsibility to stay current with any changes
in program requirements.

**Transfer Students**

Course work from another radiography program will be evaluated
on an individual basis by the Department Chair and the Admission
Appeals Committee. A grade of “C” or better is required on all transferred
prerequisite, general education, and program specific courses. The
student requesting transfer must submit a request by the Medical
Radiography Admission Appeals Committee and be granted an interview.
Transfer students from another program will be admitted on a space-
available basis.

**Student Progression**

If a student earns a grade of D, W, or F in a medical imaging (RADR)
course, the student will not be permitted to continue or to graduate from
the program until that course has been repeated and a grade of C or
above has been earned. Three grades of D, F, or W in any combination
from a RADR course will cause permanent suspension from the Medical
Radiography Program. A student may appeal their suspension with the
Medical Radiography Appeals Committee.

**Plan of Study**

**Central Campus**
3MED-RAD

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**First Term**

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<tr>
<td>RADR 1203</td>
<td>Patient Care</td>
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<td>RADR 1411</td>
<td>Basic Radiographic Procedures</td>
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<td>RADR 2209</td>
<td>Radiographic Imaging Equipment</td>
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<tr>
<td>PSYC 2301</td>
<td>General Psychology</td>
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**Second Term**

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<tr>
<td>RADR 2401</td>
<td>Intermediate Radiographic Procedures</td>
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<td>RADR 2236</td>
<td>Special Patient Applications</td>
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<td>RADR 1313</td>
<td>Principles of Radiographic Imaging I</td>
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<td>RADR 1266</td>
<td>Practicum</td>
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<tr>
<td>RADR 1267</td>
<td>Practicum</td>
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<tr>
<td>RADR 1202</td>
<td>Radiographic Image Evaluation I</td>
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<tr>
<td>RADR 2331</td>
<td>Advanced Radiographic Procedures</td>
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<td>RADR 2305</td>
<td>Principles of Radiographic Imaging II</td>
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**Fourth Term**

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<tr>
<td>RADR 2340</td>
<td>Sectional Anatomy for Medical Imaging</td>
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<tr>
<td>RADR 2233</td>
<td>Advanced Medical Imaging</td>
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<tr>
<td>RADR 2313</td>
<td>Radiation Biology and Protection</td>
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<tr>
<td>RADR 2266</td>
<td>Practicum</td>
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<td>Language, Philosophy, and Culture (Humanities) or Creative Arts (Fine Arts)</td>
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<tr>
<td>RADR 2335</td>
<td>Radiologic Technology Seminar</td>
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</tr>
<tr>
<td>RADR 2217</td>
<td>Radiographic Pathology</td>
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**Total Credits**

64

**Capstone Experience:** Eligible for American Registry of Radiologic Technologists National Certification Exam.