

**Radiologic Technologist Training Program**  
**CIP Code: 51-0911**

**Program Description:**

The radiologic technology is a diagnostic modality used for medical imaging procedures. A radiologic technologist, also known as a radiographer or x-ray tech, performs diagnostic imaging examinations, such as x-rays, on patients. It is a powerful tool that can offer a wealth of information about the human body. This program prepares individuals to provide medical imaging services to patients. Includes instruction in applied anatomy and physiology, patient positioning, radiologic technique, radiation biology, safety and emergency procedures, equipment operation and maintenance, quality assurance, patient education, and medical imaging/radiologic services management. Radiologic technologists are responsible for handling infectious and radioactive materials, and ensuring that safety measures meet government regulations. They may oversee radiologic staff, assigning duties and supervising the work, and help the facility's in various administration related activities. Radiologic technologists and technicians work in hospitals, doctor's offices or clinics and laboratories.

**Program Duration:**

18 months

**Clock Hours:**

1720

**Program Objectives:**

- Learn the components of the radiology system hardware
- Learn safety and radiation protection mechanism
- Learn the mechanism by which x-ray signal is produced and detected
- Learn image acquisition and technical evaluation using radiology system
- Learn equipment operation and quality assurance techniques
- Learn to apply the principle of pulse sequences for appropriate clinical application.
- Learn imaging procedures for head, spine, pelvis, thorax, abdomen, and extremity
- Learn to identify the tissue parameters that affect tissue contrast.
- Learn patient care & safety including patient interactions and management
- Learn the basics on how to maintain radiology system hardware and quality control techniques

**Program Curriculum:**

**BIO101 Basic Medical Terminology**  
**BIO 102 Human Anatomy and Physiology I**  
**BIO103 Fundamentals of Pharmacology**  
**BIO 104 Healthcare Laws and Ethics**  
**BIO 105 Patient Care in Imaging**  
**BIO 106 Human Anatomy and Physiology II**  
**BIO 107 Imaging Pathology**  
**RAD 111 Radiologic Procedures I**  
**RAD 112 Radiation Physics and Radiobiology I**  
**RAD 113 Radiation Protection I**  
**RAD 114 Radiologic Image Production I**  
**RAD 115 Radiologic Procedures II**  
**RAD 116 Radiation Physics and Radiobiology II**  
**RAD 117 Radiation Protection II**  
**RAD 118 Radiologic Image Production II**  
**RAD 121 Externship I**  
**RAD 122 Externship II**

**Program Format:**

The College will offer this program in on-ground format as well as in hybrid format in which students can take didactic/ theory courses using online delivery method.

**Program Completion:**

A Certificate of Completion will be awarded to those students who will successfully complete all required courses as per college's Satisfactory Academic Requirements and fulfill their financial obligation towards the college.

**Licensure Exam Eligibility:**

Graduates who will meet additional requirements, including but not limited to ethics requirements, of the credentialing agency will be eligible to challenge national certification exam to become certified by passing the credentialing examination.