

# RADIOLOGY

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- RAD 101 Exploration of Radiology .5 Credits**  
For students who are interested in becoming a radiological technologist. Designed to give basic knowledge of what a radiological technologist does and what careers are available in this field. The major learning outcome of this course is to help students determine if this is the right career choice for them. Prerequisite:
- RAD 112 Patient Care & Med Term 2 Credits**  
Covers procedures and practices related to radiological technology with an emphasis in patient care, patient safety, and communication. Aseptic techniques and procedures used to maintain a sterile field is explained. The use of prefixes, suffices, roots, and medical terms will be covered. Previous Medical Terminology course is recommended but not required. Prerequisite: Must be admitted into the Radiology Technology Program.
- RAD 116 Radiography I 3 Credits**  
Learn radiology positioning and anatomy. Identify the anatomic structures that will be on an x-ray examination, pathology noted, and radiation safety measures that should be used. Prerequisite: Must be admitted into the Radiology Technology Program.
- RAD 118 Radiology Physics/Circuitry 3 Credits**  
Provides knowledge of x-ray terminology and structure of x-ray circuitry, radiation production, radiation characteristics, and the photon interactions. Prerequisite: Must be admitted into the Radiology Technology Program.
- RAD 124 Rad Photography/Technique 3 Credits**  
Covers processing of the radiographic image, from darkroom to computerized radiography. The principles and practices with manipulation of exposure factors to obtain acceptable image quality will be discussed at length. Prerequisite: Must be admitted into the Radiology Technology Program.
- RAD 126 Radiography II 3 Credits**  
A continuation of RAD 116. Reviews advanced radiology procedures, pathology noted on images, radio-pharmacology, and film critique. Prerequisite: Must be admitted into the Radiology Technology Program.
- RAD 128 Imaging Equipment 3 Credits**  
Review all the radiographic equipment used in imaging departments and the equipment works. Prerequisite: Must be admitted into the Radiology Technology Program.
- RAD 198 Special Topics in Radiology .5-6 Credits**  
Covers limited radiology technology procedures and practices related to radiology technology with an emphasis on improving quality, radiation safety, and patient positioning. Designed for students who work with radiology equipment and want to enhance their skills. Unlimited repeatability. Prerequisite:
- RAD 225 Clinical Radiology I 5 Credits**  
A planned clinical experience. Gives the student the opportunity to apply didactic education to work-related examinations under the supervision of a registered technologist. The student must demonstrate clinical competency to continue in the program. Prerequisite: Must be admitted into the Radiology Technology Program.
- RAD 226 Clinical Radiology II 10 Credits**  
A continuation of RAD 225. The student will continue to apply knowledge gained in the classroom to work experience. Prerequisite: Must be admitted into the Radiology Technology Program.
- RAD 227 Clinical Radiology III 10 Credits**  
A continuation of RAD 226. Further clinical experiences will take place in order to achieve required competency. Prerequisite: Must be admitted into the Radiology Technology Program.
- RAD 238 Radiation Safety/Protect 2 Credits**  
Course covers the ALARA (as low as reasonable achievable) concept. It also includes the definitions and significance of radiation protection and the biological effects of radiation. National and state requirements will be discussed. Offered online. Prerequisite: Must be admitted into the Radiology Technology Program.
- RAD 240 Culmination Radiography Topics 1 Credits**  
This course builds on knowledge and experience gained from previous radiology courses to develop a deeper understanding of radiographic physics, positioning, anatomy, image production and evaluation and anatomy, physiology and pathology topics. Prerequisite: Must be admitted into the Radiology Technology Program.
- RAD 243 Medical Imaging Pathology 3 Credits**  
This online course will cover medical imaging pathology. The student will study disease utilizing medical imaging processes. It is critical for medical imaging professionals to understand the basic pathologic processes, therefore, this course will review pathological terms, etiology of disease, disease manifestation, and the role medical imaging plays in the diagnosis of disease. Prerequisite: Must be admitted into the Radiology Technology Program.