

## RAD — Radiologic Technology

### **RAD 101 Introduction to Radiography 1 - 3 - 2**

This course provides an introduction to radiologic technology with emphasis on orientation to the radiology department, ethics, and basic radiation protection.

### **RAD 102 Radiology Patient Care Proc 2 - 0 - 2**

This course provides a study of the procedures and techniques used in the care of the diagnostic imaging patient.

### **RAD 103 Intro to Computed Tomography 2 - 0 - 2**

This course is a study of the technological developments behind computed tomography, an overview of scanner components, terminology, data acquisition, digital imaging, image reconstruction, display and manipulations. Current applications will be explored, including patient screening, contract utilization and administration, contrast reactions and treatment, pediatrics, conscious sedation and monitoring, and radiation protection.

### **RAD 110 Radiographic Imaging I 2 - 3 - 3**

**Prerequisites:** RAD 101

This course provides a detailed study of the parameters controlling radiation quality and quantity for radiographic tube operation and image production.

### **RAD 115 Radiographic Imaging II 3 - 0 - 3**

**Prerequisites:** RAD 110

This course continues a detailed study of primary and secondary influencing factors and accessory equipment related to imaging.

### **RAD 120 Principles of Computed Tomogra 3 - 0 - 3**

This course is a study of assurance procedures, and radiation dosimetry in computed tomography. Special applications of computer tomography will be explored including interventional procedures, high speed ct scanning, 3 dimensional ct and multi-planar reformations. A review of special scanner features will also be covered in the course.

### **RAD 130 Radiographic Procedures I 2 - 3 - 3**

This course provides an introduction to radiographic procedures. Positioning of the chest, abdomen, and extremities are included.

### **RAD 135 Comp Tomography Body & Muscu 2 - 0 - 2**

This course provides the basic imaging protocols and patient positioning for CT exams of the abdomen, pelvis, and musculoskeletal system. Case studies including anatomy and pathology of the abdomen, pelvis, and extremities will be explored.

### **RAD 136 Radiographic Procedures II 2 - 3 - 3**

**Prerequisites:** RAD 130

This course is a study of radiographic procedures for visualization of the structures of the body.

### **RAD 140 Comp Tomography Clinical App I 1 - 15 - 6**

This course provides the student with clinical experience in basic CT scanning. Students will explore techniques related to patient safety, radiation protection, and exam protocols.

### **RAD 145 Comp Tomography Physics & Inst 3 - 0 - 3**

This course is a study of Computed Tomography physics and instrumentation. The course provides an overview of technology, application, and practice that is unique to the Computed Tomography profession.

### **RAD 153 Applied Radiography I 0 - 9 - 3**

This course introduces the clinical environment of the hospital by providing basic use of radiographic equipment and routine radiographic procedures.

### **RAD 165 Applied Radiography II 0 - 15 - 5**

**Prerequisites:** RAD 153

This course includes the use of radiographic equipment and performance of radiographic procedures within the clinical environment of the hospital.

### **RAD 175 Applied Radiography III 0 - 15 - 5**

**Prerequisites:** RAD 165

This course includes clinical education needed for building competence in performing radiographic procedures within the clinical environment.

### **RAD 201 Radiation Biology 2 - 0 - 2**

This course is a study of the principles of radiobiology and protection. It emphasizes procedures that keep radiation exposure to patients, personnel, and the population at large to a minimum.

### **RAD 205 Radiographic Pathology 2 - 0 - 2**

**Prerequisites:** RAD 136

This course provides a survey of disease processes significant to the radiographer, including etiology, diagnosis, prognosis, and treatment.

### **RAD 210 Radiographic Imaging III 3 - 0 - 3**

**Prerequisites:** RAD 115

This course provides a detailed study of advanced methods and concepts of imaging.

**RAD 220 Selected Imaging Topics 3-0-3**

**Prerequisites:** ( RAD 201 or RAD 210 or RAD 230 )

This course is a study of advanced topics unique to the radiological sciences.

**RAD 230 Radiographic Procedures III 3-0-3**

**Prerequisites:** RAD 136

This course is a study of special radiographic procedures.

**RAD 256 Advanced Radiography I 0-18-6**

**Prerequisites:** RAD 175

This course includes independently performing routine procedures in a radiology department, including involvement in advanced radiographic procedures.

**RAD 268 Advanced Radiography II 0-24-8**

**Prerequisites:** RAD 256

This course includes routine radiographic examinations, as well as advanced procedures, while continuing to build self-confidence in the clinical atmosphere

**RAD 278 Advanced Radiography III 0-24-8**

**Prerequisites:** RAD 268

This course includes routine and advanced radiographic procedures in the clinical environment.