

## **RAD - RADIOLOGIC TECH (RAD)**

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### **RAD 101 Introduction to Radiography 2 SHC**

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

Prerequisites: Admission to the program.

Corequisites: RAD 102, RAD 130, RAD 155.

Lecture Hours: 2

Lab/Clinical Hours: 0

### **RAD 102 Radiology Patient Care Procedures 2 SHC**

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

Prerequisites: Admission to program.

Corequisites: RAD 101, RAD 130, RAD 155.

Lecture Hours: 1

Lab/Clinical Hours: 3

### **RAD 110 Radiographic Imaging I 3 SHC**

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

Prerequisites: RAD 101, RAD 102, RAD 130, and RAD 155.

Corequisites: RAD 136, RAD 165, and RAD 201.

Lecture Hours: 2

Lab/Clinical Hours: 3

### **RAD 115 Radiographic Imaging II 3 SHC**

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

Prerequisites: RAD 176, RAD 235, and RAD 282.

Corequisites: RAD 121, RAD 230, and RAD 256.

Lecture Hours: 3

Lab/Clinical Hours: 0

### **RAD 121 Radiographic Physics 4 SHC**

This course introduces the principles of radiographic physics, incorporating theory and application of basic principles underlying the operation and maintenance of X-ray equipment.

Prerequisites: RAD 176, RAD 235, and RAD 282.

Corequisites: RAD 115, RAD 230, and RAD 256.

Lecture Hours: 4

Lab/Clinical Hours: 0

### **RAD 130 Radiographic Procedures I 3 SHC**

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

Prerequisites: Admission to Program.

Corequisites: RAD 101, RAD 102, and RAD 155.

Lecture Hours: 2

Lab/Clinical Hours: 3

### **RAD 136 Radiographic Procedures II 3 SHC**

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

Prerequisites: RAD 101, RAD 102, RAD 130, and RAD 155.

Corequisites: RAD 110, RAD 165, and RAD 201.

Lecture Hours: 2

Lab/Clinical Hours: 3

### **RAD 155 Applied Radiography I 5 SHC**

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

Prerequisites: Admission to Program.

Corequisites: RAD 101, RAD, 102, and RAD 130.

Lecture Hours: 0

Lab/Clinical Hours: 15

### **RAD 165 Applied Radiography II 5 SHC**

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

Prerequisites: RAD 101, RAD 102, RAD 130, and RAD 155.

Corequisites: RAD 110, RAD 201, and RAD 136.

Lecture Hours: 0

Lab/Clinical Hours: 15

### **RAD 176 Applied Radiography III 6 SHC**

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

Prerequisites: RAD 110, RAD 136, RAD 201, and RAD 165.

Corequisites: RAD 235 and RAD 282.

Lecture Hours: 0

Lab/Clinical Hours: 18

### **RAD 201 Radiation Biology 2 SHC**

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.

Prerequisites: RAD 101, RAD 102, RAD 130, and RAD 155.

Corequisites: RAD 110, RAD 165, and RAD 136.

Lecture Hours: 2

Lab/Clinical Hours: 0

### **RAD 205 Radiographic Pathology 2 SHC**

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

Prerequisites: RAD 115, RAD 121, RAD 230, and RAD 256.

Corequisites: RAD 225, RAD 236, and RAD 268.

Lecture Hours: 2

Lab/Clinical Hours: 0

### **RAD 225 Selected Radiographic Topics 2 SHC**

This course is a study of selected areas related to radiography.

Prerequisites: RAD 115, RAD 121, RAD 230, and RAD 256.

Corequisites: RAD 205, RAD 236, and RAD 268.

Lecture Hours: 2

Lab/Clinical Hours: 0

**RAD 230 Radiographic Procedures III 3 SHC**

This course is a study of special radiographic procedures.

Prerequisites: RAD 176, RAD 235, and RAD 282.

Corequisites: RAD 115, RAD 121, and RAD 256.

Lecture Hours: 2

Lab/Clinical Hours: 3

**RAD 235 Radiography Seminar I 1 SHC**

This course is a study of selected areas of radiography that are unique or new to the field.

Prerequisites: RAD 110, RAD 136, RAD 201, and RAD 165.

Corequisites: RAD 176 and RAD 282.

Lecture Hours: 1

Lab/Clinical Hours: 0

**RAD 236 Radiography Seminar II 2 SHC**

This course includes selected areas of radiography that require additional study or application.

Prerequisites: RAD 115, RAD 121, RAD 230, and RAD 256.

Corequisites: RAD 205, RAD 225, and RAD 268.

Lecture Hours: 2

Lab/Clinical Hours: 0

**RAD 256 Advanced Radiography I 6 SHC**

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

Prerequisites: RAD 176, RAD 235, and RAD 282.

Corequisites: RAD 115, RAD 121, and RAD 230.

Lecture Hours: 0

Lab/Clinical Hours: 18

**RAD 268 Advanced Radiography II 8 SHC**

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

Prerequisites: RAD 115, RAD 121, RAD 230, and RAD 256.

Corequisites: RAD 225, RAD 236, and RAD 205.

Lecture Hours: 0

Lab/Clinical Hours: 24

**RAD 282 Imaging Practicum 2 SHC**

This clinical course provides an opportunity for exploration of career opportunities in radiology and advanced imaging modalities.

Prerequisites: RAD 110, RAD 136, RAD 201, and RAD 165.

Corequisites: RAD 235 and RAD 176.

Lecture Hours: 0

Lab/Clinical Hours: 6