

# 2018-2019 TTC Catalog - Radiologic Technology (RAD)

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## **RAD 101 - Introduction to Radiography**

**Lec:** 2.0 **Lab:** 0 **Credit:** 2.0

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

### **Prerequisite**

MAT 110

and

BIO 210

and

BIO 211

### **Corequisite**

RAD 102

and

RAD 121

**Grade Type:** Letter Grade

**Restrictions:** Restricted to RAD majors

**Division:** Health Sciences

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## **RAD 102 - Radiology Patient Care Procedures**

**Lec:** 2.0 **Lab:** 0 **Credit:** 2.0

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

### **Prerequisite**

BIO 210

and

BIO 211

and

MAT 110

**Grade Type:** Letter Grade

**Restrictions:** Restricted to RAD majors

**Division:** Health Sciences

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## **RAD 121 - Radiographic Physics**

**Lec:** 4.0 **Lab:** 0 **Credit:** 4.0

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

**Prerequisite**

BIO 210

and

BIO 211

and

MAT 110

**Corequisite**

RAD 101

and

RAD 102

**Grade Type:** Letter Grade

**Restrictions:** Restricted to RAD majors

**Division:** Health Sciences

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## **RAD 127 - Procedures in Radiography I**

**Lec:** 1.5 **Lab:** 1.5 **Credit:** 2.0

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

**Prerequisite**

RAD 101

RAD 102

**Corequisite**

RAD 155

and

RAD 180

**Grade Type:** Letter Grade

**Division:** Health Sciences

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## **RAD 128 - Procedures in Radiography II**

**Lec:** .5 **Lab:** 1.5 **Credit:** 1.0

This course provides an introduction to radiographic procedures. Positioning of the shoulder and upper extremities is included.

**Prerequisite**

RAD 127

**Corequisite**

RAD 155

and

RAD 280

**Grade Type:** Letter Grade

**Division:** Health Sciences

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## **RAD 129 - Radiographic Positioning I**

**Lec:** 1.5 **Lab:** 1.5 **Credit:** 2.0

This course is a study of radiographic procedures. Positioning of the lower extremities and pelvis is included.

**Prerequisite**

RAD 128

**Corequisite**

RAD 165

and

RAD 181

**Grade Type:** Letter Grade

**Division:** Health Sciences

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## **RAD 139 - Radiographic Positioning II**

**Lec:** .5 **Lab:** 1.5 **Credit:** 1.0

This course is a study of radiographic procedures. Positioning of the bony thorax and upper spinal column is included.

**Prerequisite**

RAD 129

**Corequisite**

RAD 165

and

RAD 281

**Grade Type:** Letter Grade**Division:** Health Sciences**RAD 150 - Clinical Applications I****Lec:** 0 **Lab:** 12.0 **Credit:** 4.0

This course includes practice of hands-on clinical skills in hospital/outpatient environments.

**Prerequisite**

RAD 165

**Corequisite**

RAD 201

and

RAD 236

**Grade Type:** Letter Grade**Division:** Health Sciences**RAD 155 - Applied Radiography I****Lec:** 0 **Lab:** 15.0 **Credit:** 5.0

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

**Prerequisite**

RAD 101

RAD 102

and

RAD 121

**Grade Type:** Letter Grade**Division:** Health Sciences

## **RAD 165 - Applied Radiography II**

**Lec:** 0 **Lab:** 15.0 **Credit:** 5.0

This course allows students to receive instruction in the use of radiographic equipment and performance of radiographic procedures within the clinical environment of the hospital.

### **Prerequisite**

RAD 155

### **Corequisite**

RAD 129

and

RAD 139

and

RAD 181

and

RAD 281

**Grade Type:** Letter Grade

**Division:** Health Sciences

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## **RAD 180 - Introduction to Radiographic Imaging I**

**Lec:** .5 **Lab:** 1.5 **Credit:** 1.0

This course provides instruction in the fundamental principles and controlling factors of X-ray and image production.

### **Prerequisite**

RAD 121

### **Corequisite**

RAD 127

and

RAD 155

**Grade Type:** Letter Grade

**Division:** Health Sciences

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## **RAD 181 - Imaging Principles I**

**Lec:** .5 **Lab:** 1.5 **Credit:** 1.0

This course provides instruction in the imaging techniques related to conventional and digital radiography.

**Prerequisite**

RAD 280

**Corequisite**

RAD 129

and

RAD 165

**Grade Type:** Letter Grade

**Division:** Health Sciences

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## **RAD 201 - Radiation Biology**

**Lec:** 2.0 **Lab:** 0 **Credit:** 2.0

This course provides instruction in the principles of radiobiology and protection. It emphasizes procedures that minimize radiation exposure of patients, personnel and the population at large.

**Prerequisite**

RAD 139

and

RAD 281

**Corequisite**

RAD 150

and

RAD 236

**Grade Type:** Letter Grade

**Division:** Health Sciences

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## **RAD 205 - Radiographic Pathology**

**Lec:** 2.0 **Lab:** 0 **Credit:** 2.0

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

**Prerequisite**

RAD 230

**Corequisite**

RAD 257

**Grade Type:** Letter Grade

**Division:** Health Sciences

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## **RAD 225 - Selected Radiographic Topics**

**Lec:** 2.0 **Lab:** 0 **Credit:** 2.0

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

**Prerequisite**

RAD 205

**Corequisite**

RAD 267

**Grade Type:** Letter Grade

**Division:** Health Sciences

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## **RAD 230 - Radiographic Procedures III**

**Lec:** 2.0 **Lab:** 3.0 **Credit:** 3.0

This course provides instruction in special radiographic procedures.

**Prerequisite**

RAD 201

and

RAD 236

**Corequisite**

RAD 257

**Grade Type:** Letter Grade

**Division:** Health Sciences

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## **RAD 235 - Radiographic Seminar I**

**Lec:** 1.0 **Lab:** 0 **Credit:** 1.0

This course is a study of instruction in the advanced imaging technologies that are unique to the needs of the profession.

**Prerequisite**

RAD 225

**Corequisite**

RAD 267

**Grade Type:** Letter Grade

**Division:** Health Sciences

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## **RAD 236 - Radiography Seminar II**

**Lec:** 1.0 **Lab:** 3.0 **Credit:** 2.0

This lecture and laboratory course includes a review of the anatomy of the skull and positioning of cranial and facial bones.

### **Prerequisite**

RAD 139

### **Corequisite**

RAD 150

and

RAD 201

**Grade Type:** Letter Grade

**Division:** Health Sciences

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## **RAD 257 - Advanced Radiography I**

**Lec:** 0 **Lab:** 21.0 **Credit:** 7.0

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

### **Prerequisite**

RAD 150

### **Corequisite**

RAD 205

and

RAD 230

**Grade Type:** Letter Grade

**Division:** Health Sciences

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## **RAD 267 - Advanced Radiography II**

**Lec:** 0 **Lab:** 21.0 **Credit:** 7.0

This course includes independently performing routine and advanced radiographic procedures while continuing to build self-reliance and confidence in the clinical atmosphere.

**Prerequisite**

RAD 257

**Corequisite**

RAD 225

and

RAD 235

**Grade Type:** Letter Grade

**Division:** Health Sciences

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**RAD 280 - Advanced Imaging I**

**Lec:** 1.5 **Lab:** 1.5 **Credit:** 2.0

This course provides instruction in the advanced imaging technologies that are unique to the needs of the profession.

**Prerequisite**

RAD 180

**Corequisite**

RAD 128

and

RAD 155

**Grade Type:** Letter Grade

**Division:** Health Sciences

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**RAD 281 - Advanced Imaging II**

**Lec:** 1.5 **Lab:** 1.5 **Credit:** 2.0

This course provides advanced instruction in contemporary imaging technologies and applications.

**Prerequisite**

RAD 181

**Corequisite**

RAD 139

and

RAD 165

**Grade Type:** Letter Grade

**Division:** Health Sciences

