

2024-2025 TTC Catalog - Radiologic Technology (RAD)

RAD 101 - Introduction to Radiography

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

Course Offered

Summer

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

Grade Type: Letter Grade

Restrictions: Restricted to RAD majors

Division: Health Sciences

RAD 102 - Radiology Patient Care Procedures

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

Course Offered

Summer

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

RAD 121 - Radiographic Physics

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

Course Offered

Summer

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

Grade Type: Letter Grade

Restrictions: Restricted to RAD majors

Division: Health Sciences

RAD 127 - Procedures in Radiography I

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

Course Offered

Fall

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

Prerequisite

RAD 101

and

RAD 102

Grade Type: Letter Grade

Division: Health Sciences

RAD 128 - Procedures in Radiography II

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

Course Offered

Fall

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

Prerequisite

RAD 127

Grade Type: Letter Grade

Division: Health Sciences

RAD 129 - Radiographic Positioning I

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

Course Offered

Spring

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

Prerequisite

RAD 128

Grade Type: Letter Grade

Division: Health Sciences

RAD 139 - Radiographic Positioning II

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

Course Offered

Spring

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

Prerequisite

RAD 129

Grade Type: Letter Grade

Division: Health Sciences

RAD 150 - Clinical Applications I

Lec: 0 **Lab:** 12.0 **Credit:** 4.0

Course Offered

Summer

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

Prerequisite

RAD 165

Grade Type: Letter Grade

Division: Health Sciences

RAD 155 - Applied Radiography I

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

Course Offered

Fall

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

Prerequisite

RAD 101

and

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

Course Offered

Spring

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

Grade Type: Letter Grade

Division: Health Sciences

RAD 180 - Introduction to Radiographic Imaging I

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

Course Offered

Fall

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

Prerequisite

RAD 121

Grade Type: Letter Grade

Division: Health Sciences

RAD 181 - Imaging Principles I

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

Course Offered

Spring

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

Prerequisite

RAD 280

Grade Type: Letter Grade

Division: Health Sciences

RAD 201 - Radiation Biology

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

Course Offered

Summer

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 281

Grade Type: Letter Grade

Division: Health Sciences

RAD 205 - Radiographic Pathology

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

Course Offered

Fall

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

Prerequisite

RAD 230

Grade Type: Letter Grade

Division: Health Sciences

RAD 225 - Selected Radiographic Topics

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

Course Offered

Spring

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

Prerequisite

RAD 205

Grade Type: Letter Grade

Division: Health Sciences

RAD 230 - Radiographic Procedures III

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

Course Offered

Fall

This course provides instruction in special radiographic procedures.

Prerequisite

RAD 236

Grade Type: Letter Grade

Division: Health Sciences

RAD 235 - Radiographic Seminar I

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

Course Offered

Spring

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

Prerequisite

RAD 225

Grade Type: Letter Grade

Division: Health Sciences

RAD 236 - Radiography Seminar II

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

Course Offered

Summer

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

Prerequisite

RAD 139

Grade Type: Letter Grade

Division: Health Sciences

RAD 257 - Advanced Radiography I

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

Course Offered

Fall

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

Prerequisite

RAD 150

Grade Type: Letter Grade

Division: Health Sciences

RAD 267 - Advanced Radiography II

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

Course Offered

Spring

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

Grade Type: Letter Grade

Division: Health Sciences

RAD 280 - Advanced Imaging I

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

Course Offered

Fall

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

Prerequisite

RAD 180

Grade Type: Letter Grade

Division: Health Sciences

RAD 281 - Advanced Imaging II

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

Course Offered

Spring

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

Prerequisite

RAD 181

Grade Type: Letter Grade

Division: Health Sciences
