# RAD Radiography

RAD 331 - Foundations of Radiography (3)

Students are introduced to radiography, imaging equipment, and the radiography clinical environment. Topics include terminology, positioning and imaging principles, and radiation safety.

Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Spring

RAD 332 - Radiographic Procedures I (3)

Students will learn positioning skills for chest, abdomen, and upper and lower extremities. Students will be introduced to basic pathologies related to anatomy included in this course.

Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Spring

RAD 333 - Radiographic Procedures II (3)

Students will learn positioning skills for spine, bony thorax, cranium, facial bones, sinuses and contrast examinations.

Prerequisite: Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Summer

RAD 334 - Principles of Radiography (4)

Students are asked to make connections between the introductory lectures and clinical practice.  This course prepares students for the national certification exams.

Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Spring

RAD 335 - Radiation Physics (3)

Students will learn about x-ray circuit components, methods of rectification, and construction of the x-ray tube. Topics include X-ray interactions and the absorption of radiation and effects upon tissue and tissue recovery.

Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Summer

RAD 336 - Clinical Education I (3)

Students are introduced to the clinical environment with emphasis on radiography department procedures, radiation safety, and patient care. Students gain practical experience observing and applying imaging principles. 18 contact hours

Prerequisite: Acceptance into a Medical Imaging Clinical program

Offered: Spring

RAD 338 - Clinical Education II (5)

Student learn general radiography procedures, radiation safety, and patient care with emphasis radiographer skills. They will gain practical experience applying imaging principles.. 30 contact hours.

Offered: Summer

RAD 432 - Radiobiology (4)

Students learn the concepts of creating and capturing digital images including preprocessing, processing, and postprocessing. Students will also learn principles of radiobiology and radiation protection.

Offered: Fall

RAD 433 - Clinical Education III (5)

Students perform routine radiography procedures in various clinical settings on all patient types with emphasis on exposure factors and gaining independence in the clinical environment. 30 contact hours

Offered: Fall

RAD 434 - Advanced Procedures in Radiography (3)

Students will learn about advanced procedures in radiography, including trauma, mobile, and surgical radiography, pediatrics, arthrography, hysterosalpingography, myelography, orthoroentgentography, and biliary duct procedures. Emphasis will be on case studies.

Offered: Spring

RAD 435 - Registry Review (3)

Students will review the specifications of the ARRT Radiography examination, the guidelines for application, study strategies, and content included in the exam.

Offered: Spring

RAD 436 - Clinical Education IV (4)

Students will perform routine radiography procedures in various clinical settings on all patient types with an emphasis on critical thinking and problem solving in the clinical environment. 24 contact hours

Offered: Spring

RAD 437 – Radiographic Mammography (3)

Students will learn mammographic patient care, image production, and procedures required for the ARRT Registry Exam in Mammography. The course outline will follow the ARRT structured education requirements for mammography.

Prerequisite: Licensure as a radiographic technologist or current enrollment in RAD 435.

Offered: Spring

# RADT - Radiologic Technology