

# Radiologic Technology Course Descriptions

## **XCT 210 Computed Tomography Imaging**

**3-0-3**

History, physics, and system operational components of computed tomography imaging. Image acquisition, display, reconstruction, and quality control. Online course. Prerequisite: ARRT primary certification or concurrent enrollment in XRA 213, XRA 214, and XRA 232.Su

## **XCT 212 Sectional Pathology**

**3-0-3**

Sectional imaging procedures and pathology commonly found in CT and MRI. Online course. Prerequisite: ARRT primary certification or XCT 210.F S

## **XRA 111 Radiologic Technology I**

**2-3-3**

Radiographic anatomy and positioning of upper and lower extremities, spine, thorax, contrast studies, and medical terminology.

Prerequisites: credit or concurrent enrollment in XRA 114, XRA 131, BIO 121, and HCS 216.F

## **XRA 112 Radiologic Technology II**

**2-3-3**

Xray imaging characteristics, factors affecting radiographic exposure, and digital imaging. Radiographic positioning of skull and facial bones.

Prerequisites: XRA 111, XRA 131, BIO 121, and credit or concurrent enrollment in XRA 132, BIO 122, and PHY 112.S

## **XRA 114 Patient Care**

**2-3-3**

Students apply basic skills in a variety of settings: health care trends, vital signs, body mechanics, cardiopulmonary resuscitation, isolation techniques, and communication skills. Prerequisites: credit or concurrent enrollment in XRA 111, XRA 131, and BIO 121.F

## **XRA 131 Clinical I**

**0-18-3**

Students assist and perform routine examinations of chest, abdomen, spine, and extremities; 270 clinical hours. Prerequisites: credit or concurrent enrollment in XRA 111, XRA 114, BIO 121, and HCS 216.F

## **XRA 132 Clinical II**

**0-24-4**

Students assist and perform fluoroscopy, exams, routine exams, and portable xray examinations with relative independence; 360 clinical hours.

Prerequisites: XRA 111, XRA 114, XRA 131, BIO 121, HCS 216, and credit or concurrent enrollment in XRA 112, BIO 122, and PHY 112.S

## **XRA 213 Radiographer's Physics**

**3-0-3**

Basic xray equipment construction and function, properties of electromagnetic radiation, and basic xray physics. Hybrid course. Prerequisites: XRA 112, XRA 231, BIO 122, and PHY 112 and concurrent enrollment in XCT 210, XRA 214, and XRA 232.F

## **XRA 214 Advanced Radiologic Technology I**

**2-2-3**

Advanced factors affecting radiographic exposure. Radiobiology, interactions in matter, health physics, and radiation protection. Hybrid course.

Prerequisites: XRA 112, XRA 231, BIO 122, and PHY 112 and concurrent enrollment in XCT 210, XRA 213, and XRA 232.F

## **XRA 216 Advanced Radiologic Technology II**

**3-0-3**

Pathology and review seminars. Hybrid course. Hybrid course. Prerequisites: XRA 213, XRA 214, XRA 232, and XCT 210 and concurrent enrollment in XRA 217, XRA 233, and XCT 212.S

## **XRA 217 Advanced Clinical Skills**

**0-3-1**

Critical positioning skills in atypical radiographic procedures. Prerequisites: XRA 213, XRA 214, XRA 232, XCT 210 and concurrent enrollment in XRA 216, XRA 233, XCT 212.S

## **XRA 231 Clinical III**

**0-16-2**

Students assist and perform skull and emergency x-ray exams and perform all objectives stated in previous clinical courses with relative independence; 240 clinical hours. Prerequisites: XRA 112, XRA 132, BIO 122, and PHY 112.Su

## **XRA 232 Clinical IV**

**0-24-4**

Students perform most xray examinations with a minimum of assistance. Participation in rotations to various specialty areas; 360 clinical hours.

Prerequisites: XRA 112 and XRA 231 and concurrent enrollment in XCT 210, XRA 213, and XRA 214.F

## **XRA 233 Clinical V**

**0-24-4**

Students perform most routine and non-routine xray examinations with little or no supervision as a technologist would function; 360 clinical hours.

Prerequisites: XRA 213, XRA 214, XCT 210, and XRA 232 and concurrent enrollment in XRA 216, XRA 217, and XCT 212.S

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*Content subject to change. Please check the college catalog before finalizing your schedule.*