

Radiologic Technology

XRA 111 Radiologic Technologies 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, BIO121, and HCS 216.F

XRA 112 Radiologic Technologies II

2-3-3

X-ray film and accessories, image characteristics, factors affecting radiographic exposure, and darkroom chemistry and processing. Radiographic positioning of skull and facial bones. Prerequisites: XRA 111, XRA 131, BIO 121, HCS 216, and credit or concurrent enrollment in XRA 132, BIO122, and PHY 112.S

XRA 114 Basic Clinical Skills

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, BIO121, and HCS 216.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, BIO121, and HCS 216.F

XRA 132 Clinical II

0-24-4

Students assist and perform fluoroscopy, exams, routine exams, and portable x-ray examinations with relative independence; 360 clinical hours. Prerequisites: XRA 111, XRA 114, XRA 131, BIO121, HCS 216, and credit or concurrent enrollment in XRA 112, BIO122 and PHY 112.S

XRA 150 Introduction to Radiography

1-0-1

Introduction to the radiologic technology program, profession, clinical affiliates, history of radiation, basic x-ray protection, and terminology. FS

XRA 213 Radiographer's Physics

3-0-3

Basic x-ray equipment construction and function, properties of electromagnetic radiation, and basic x-ray physics.

Prerequisites: XRA 112, XRA231, BIO122, PHY 112, and concurrent enrollment in XRA 214 and XRA 232. F

XRA 214 Advanced Radiologic Technologies I

2-2-3

Advanced factors affecting radiographic exposure. Radiobiology, interactions in matter, health physics, and radiation protection. Prerequisites: XRA 112, XRA 231, BIO122, and PHY 112 and concurrent enrollment in XRA 213 and XRA 232.F

XRA 215 Advanced Radiologic Technologies II

2-0-2

Procedures in specialty areas such as nuclear medicine, radiation therapy, ultrasound, special procedures, CT/MRI, mammography, pediatric radiography, contrast media, and digital radiography. Prerequisites: XRA 213, XRA 214, and XRA 232, and concurrent enrollment in XRA 216, XRA 233, and BIO226.S

XRA 216 Advanced Radiologic Technologies II

3-0-3

Pathology and review seminars. Prerequisites: XRA 213, XRA 214, XRA 232, and concurrent enrollment in XRA 215, XRA 217, XRA 233, and BIO226.S

XRA 217 Advanced Clinical Skills

0-3-1

Critical positioning skills in atypical radiographic procedures. Prerequisites: XRA213, XRA 214, XRA232 and concurrent enrollment in XRA 215, XRA 216, and BIO 226.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, BIO122, and PHY 112.Su

XRA 232 Clinical IV

0-24-4

Students perform most x-ray examinations with a minimum of assistance. Participation in rotations to various specialty areas; 360 clinical hours. Prerequisites: XRA 112, XRA231, and concurrent enrollment in XRA 213 and XRA 214.F

XRA 233 Clinical IV

0-24-4

Students perform most routine and nonroutine x-ray examinations with little or no supervision as a technologist would function; 360 clinical hours. Prerequisites: XRA 213, XRA 214, XRA 232, and concurrent enrollment in XRA 215, XRA 216, XRA 217, and BIO226.S