Course Information Form (CIF)

Course Code: XRA 217

Course Title: Advanced Clinical Skills

Department: Allied Health
PCS Code: 1.2 - Occupational/Technical Instruction
CIP Code: 51.0911
Repeatability: 0

Effective Date: Summer 2026

Credit Hours

Catalog Notation: 0-3-1
Credit Hour Distribution:

Lecture: 0	Lab: 3	Clinical: 0	**Total: 1**

General Course Information

Catalog Description

Critical positioning skills in atypical radiographic procedures.

General Course Objectives

Students will demonstrate knowledge and appropriate application of advanced and atypical radiographic procedures.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 099	Placement out of CCS 099	None

Prerequisites

Credit in XRA 213, XRA 214, XRA 232, and XCT 210
Concurrent enrollment in XRA 216, XRA 233, and XCT 212
Admission into the Radiologic Technology program

Methods of Evaluation

2-4 practical exams.

Instructional Materials and Additional Supplies

Merrill's Atlas of Radiographic Positions and Procedures Volume I, current edition. Frank, E., Long, B. and Smith, B. Elsevier. 9780323833318
Merrill's Atlas of Radiographic Positions and Procedures Volume II, current edition. Frank, E., Long, B. and Smith, B. Elsevier. 978-0323832816

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.
- Reasoning and Inquiry: Students will demonstrate the ability to solve problems using deductive reasoning and logic, quantitative reasoning, or the scientific method.
- Technology: Students will demonstrate the ability to evaluate, select, and appropriately use current and emerging tools.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Atypical Positioning in: a) Upper extremities, b) Lower extremities, c) Cervical spine, d) Thoracic spine, e) Lumbar spine, f) Skull, g) Facial bones, h) Portable radiography, i) Surgical radiography	1. Demonstrate proficiency in atypical exams of the upper extremities and lower extremities. 2. Demonstrate proficiency in atypical exams of the spine. 3. Manipulate x-ray tube for x-lateral procedures. 4. Demonstrate proficiency in portable procedures of the chest in supine and sitting position. 5. Demonstrate proficiency in portable procedures for x-lateral trauma views. 6. Select appropriate technical factors. 7. Identify alternative positioning skills/views for patients unable to stand. 8. Demonstrate appropriate procedures for patients with fractures. 9. Assess patient conditions and alter procedure to accommodate patient needs. 10. Perform surgical procedures for atypical exams. 11. Utilize critical thinking skills for unusual exams. 12. Recognize limitations of portable and surgical c-arm equipment and accommodate procedures.	0	45	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
0	45	0