

Course Code: XRA 114

Course Title: Patient Care

Department: Allied Health

Effective Date: Summer 2026

PCS Code: 1.2 - Occupational/Technical Instruction

CIP Code: 51.3901

Repeatability: 0

Credit Hours

Catalog Notation: 2-3-3

Credit Hour Distribution:

Lecture: 2

Lab: 3

Clinical: 0

Total: 3

General Course Information

Catalog Description

Apply basic skills in variety of settings: health care trends, vital signs, body mechanics, cardiopulmonary resuscitation, isolation techniques, and communication skills.

General Course Objectives

- Identify health care trends and potential legal implications in the health care delivery system.
- Perform basic patient care skills, isolation techniques, and manipulate x-ray imaging unit for chest and KUB exams.

Minimum Placement Levels

English	Reading	Math
Placement out of ENG 099	Placement out of CCS 099	Placement out of MAT 072

Prerequisites

Credit or concurrent enrollment in XRA 111, XRA 131, and BIO 121

Admission into the Radiologic Technology program

Methods of Evaluation

1-2 objective exams (midterm and final), 2-4 lab practical exams, 7-8 lab skills pass/fail testing, and 8-12 online assignments.

Instructional Materials and Additional Supplies

Introduction to Radiologic & Imaging Sciences & Patient Care, Adler and Carlton. Current Edition.

Merrill's Atlas of Radiographic Positioning & Procedures Volume I and II, Current Edition.

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.
- Creativity and Innovative Thinking: Students will design, present, and interpret materials, information, and ideas in innovative ways.
- 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
Overview of Health Care	1. Discuss the complexity of the healthcare delivery system and how current changes affect radiology. 2. Describe how radiology fits into the organizational structure of the healthcare system, and describe the external and internal influences. 3. Examine the legal issues that can arise when performing patient care within radiology and list agencies responsible for oversight.	4	0	0
Basic Clinical Skills	1. Follow procedures to perform proper patient transfer techniques and use proper body mechanics. 2. Prepare sterile trays, enema bags, and contrast/venipuncture and fluoroscopic supplies. 3. Demonstrate basic first-aid in emergency situations including hypoglycemia, convulsions, fainting, contrast reactions, handling an injured/splinted limb, emergency carries, and drug allergies. 4. Demonstrate skills in assessing blood pressure/vital signs. 5. Demonstrate proper oxygen transfer and administration per chart order. 6. Demonstrate proper handwashing, gloves, gowns, masks, and disinfection of equipment. 7. Demonstrate proper disposal of linens, needles, and patient supplies.	12	18	0
Positioning Skills for Chest, Abdomen, and Fluoroscopy	1. Manipulate x-ray tube and patient into position for chest, abdomen, and fluoroscopic procedures and demonstrate competency on practical exams. 2. Assess chest, abdomen, and fluoroscopic images for diagnostic quality and identify relevant anatomic structures.	6	18	0
Exposure Factors	1. List the four primary exposure factors. 2. Manipulate those exposure factors for chest, abdomen, and fluoroscopic exams on the control panel.	4	3	0
Radiation Protection	1. Explain how x-rays interact in the patient to produce a radiograph. 2. Discuss procedures to reduce patient dose and minimize occupational exposure. 3. Discuss how the secondary exposure factors affect the radiograph.	4	6	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
30	45	0