# Course Information Form (CIF)

**Course Code:** XRA 216

**Course Title:** Advanced Radiologic Technology II

**Department:** Allied Health
**PCS Code:** 1.2 - Occupational/Technical Instruction
**CIP Code:** 51.0907
**Repeatability:** 0

**Effective Date:** Summer 2026

## Credit Hours

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

| Lecture: 3 | Lab: 0 | Clinical: 0 | **Total: 3** |
|---|---|---|---|

## General Course Information

### Catalog Description

Pathology and review seminars.

### General Course Objectives

An introductory overview of pathology and radiobiology with registry review to help graduates prepare for the American Registry of Radiologic Technologists examination in May.

### 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 217, XRA 233, and XCT 212
Admission into the Radiologic Technology program

### Methods of Evaluation

4-6 objective exams and 1-2 case presentations.

### Instructional Materials and Additional Supplies

Mosby's Comprehensive Review of Radiography, current edition, Callaway, W.
Appleton & Lange's Review for the Radiography Examination, current edition, Saja, D.A.
RADTECH BOOTCAMP, https://www.radtechbootcamp.com/ (optional subscription)
ARRT Application fee: $220
IEMA Licensure: $120
Kettering Review Seminar: $265

## 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 |
|---|---|---|---|---|
| Cultural Communication | 1. Define cultural communication.<br>2. Describe differences vs. similarities in ethnic/cultural backgrounds and their response to healthcare.<br>3. Evaluate various cultural or ethnic situations and determine the appropriate steps to complete the exam.<br>4. Discuss appropriate communication techniques and responses to situations involving a language barrier. | 3 | 0 | 0 |
| HIPAA and CPT Coding | 1. Define HIPAA and state when the Act became effective.<br>2. Discuss the pros and cons of HIPAA as it relates to healthcare.<br>3. Evaluate various HIPAA violations to determine the appropriate outcome.<br>4. Illustrate how HIPAA impacts healthcare workers.<br>5. Discuss the importance of proper diagnostic coding and how it relates to department effectiveness.<br>6. Discuss the effects of CPT coding on our community. | 3 | 0 | 0 |
| Legal and Ethical Issues of Medication Administration | 1. Discuss the current legal and ethical status of the radiographer's role in drug administration.<br>2. Discuss a radiographer's professional liability concerning drug administration.<br>3. Discuss the legal significance of a signed consent form.<br>4. State the difference between a general consent form and an informed consent form.<br>5. Interpret the ASRT scope of practice statement and how that impacts the radiographer. | 3 | 0 | 0 |
| Routine Contrast Studies of Gastrointestinal Tract, Biliary Tract, and Urinary System | 1. Discuss equipment and supplies necessary for radiography exams using contrast media.<br>2. Describe patient preparation necessary for radiography exams using contrast media.<br>3. Indicate contrast media typically used, the usual dosage, and route of administration for radiography exams using contrast media.<br>4. Identify anatomic structures and functions demonstrated for radiographic exams using contrast media. | 6 | 0 | 0 |

| Course Segment | Learning Outcomes | Lecture Hours | Lab Hours | Clinical Hours |
|---|---|---|---|---|
| Registry Review: Overview of the major topical areas of concern on the Registry Exam. A) Patient Care, B) Safety Including Radiation Physics, Radiobiology, and Radiation Protection, C) Image Production, D) Procedures | 1. Upon completion of the course, the student will be prepared to write and pass the Registry examination of the American Registry of Radiologic Technologists.<br>2. Indicate radiation protection including standards, monitoring patient dose, and limits to reduce the effects of radiation.<br>3. Describe patient preparation necessary for radiography exams.<br>4. Discuss equipment and technical factors that contribute to image acquisition.<br>5. Identify anatomic structures and positioning demonstrated for radiographic exams. | 30 | 0 | 0 |

**Total Contact Hours**

| Lecture Hours | Lab Hours | Clinical Hours |
|---|---|---|
| 45 | 0 | 0 |