

Course Information Form (CIF)

Course Code: XRA 150

Course Title: Introduction to Radiography

Department: Allied Health

Effective Date: Summer 2026

PCS Code: 1.2 - Occupational/Technical Instruction

CIP Code: 51.0907

Repeatability: 0

Credit Hours

Catalog Notation: 1-0-1

Credit Hour Distribution:

Lecture: 1

Lab: 0

Clinical: 0

Total: 1

General Course Information

Catalog Description

Introduction to the Radiologic Technology program, profession, clinical affiliates, history of radiation, basic x-ray protection, and terminology. Hybrid course.

General Course Objectives

Analyze basic concepts and theories to determine level of readiness for coursework in radiology program.

Minimum Placement Levels

English

None

Reading

None

Math

None

Prerequisites

None

Methods of Evaluation

2-3 objective exams and 1-2 group assignments.

Instructional Materials and Additional Supplies

Introduction to Radiologic Technology, William Callaway. Current edition.

Course Content

General Learning Outcomes (GLOs)

- Communication: Students will demonstrate the ability to read, write, listen, and speak effectively.
- Critical Thinking and Information Literacy: Students will demonstrate the ability to evaluate perspectives, evidence, and implications, and to locate, assess, and use information effectively.
- Global Awareness and Cultural Reasoning: Students will demonstrate their understanding of global issues, gender and sexual orientation, and multicultural perspectives.

Course Segments and Student Learning Outcomes

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Radiologic Technology Profession: a) Professional organizations, b) Historical perspective, c) Dynamics of learning, d) Personal adjustments, e) Radiology department operation	1. List professional organizations affiliated with radiologic technology. 2. Describe historical perspective of radiology. 3. Examine various learning styles and select methods that may fulfill academic needs. 4. Prepare a schedule that reflects personal adjustments for program enrollment. 5. Discuss the operational flow of a typical radiology department.	3	0	0
Radiologic Technology Program at Parkland: a) Clinical expectation, b) Classroom/lab expectation, c) Critical thinking strategy, d) Common radiology terms, e) Patient interactions	1. Define and discuss clinical expectations for students in the program. 2. Define and discuss classroom and lab expectations for students in the program. 3. Interpret program policies defined in the student success manual. 4. Identify various critical thinking strategies. 5. Analyze clinical scenarios and utilize critical thinking strategies to resolve the crisis. 6. Identify and define common radiology terms. 7. Practice/role play patient interactions with fellow classmates to explain procedure to patients.	3	0	0
Radiologic Exams: a) General patient exams, b) Trauma patient exams, c) Hospital exams, d) Mobile patient exams, e) Surgical patient exams, f) Special patient exams	1. Identify from a list general patient exams. 2. Recognize various trauma patient exams. 3. Differentiate between mobile and surgical patient exams. 4. Differentiate between in-patient and out-patient exams. 5. List at least three special patient exams.	3	0	0
Radiologic Equipment: a) Diagnostic x-ray tube, b) Portable and c-arm units, c) Fluoroscopic units, d) Radiation protection, e) Quality imaging	1. Label and identify components of an x-ray tube. 2. List specific features of an x-ray tube. 3. Identify the source of radiation. 4. Differentiate between portable and c-arm units. 5. Differentiate between diagnostic and fluoroscopic units. 6. Define basic radiation protection devices. 7. Differentiate between radiation protection devices and radiation monitoring devices. 8. Define the term quality imaging.	3	0	0

Course Segment	Learning Outcomes	Lecture Hours	Lab Hours	Clinical Hours
Medical Ethics: a) Ethics and professionalism, b) Medicolegal considerations, c) Allied health professionals, d) Career advancement	1. Define ethics and professionalism. 2. Differentiate between ethics and laws. 3. Describe professional behavior. 4. List at least four medicolegal considerations common in radiology. 5. Describe an allied health professional. 6. List at least four career advancements in radiology. 7. List the requirement for employment as a radiologic technologist.	3	0	0

Total Contact Hours

Lecture Hours	Lab Hours	Clinical Hours
15	0	0