

COURSE OUTLINE

RAD-111

Radiographic Procedures I

3 Credit Hours

Received by

HOWARD COMMUNITY COLLEGE

from

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Description

An introduction to the terminology, ethics, history and techniques necessary to produce radiographs. Includes appropriate patient care procedures, basic exposure, positioning techniques, principles of equipment use and radiation protection.

Overall Course Objectives

Upon completion of this course, the student will be able to:

1. Describe contributions of individuals in the field of radiology.
2. Compare the role of radiographer to that of other health professionals.
3. Discuss the relationship of the radiographer with other health care professionals.
4. Name and describe the influence/function of the organizations which have primary influence in radiography standards of practice.
5. Describe procedures necessary for individual licensure and institutional accreditation.
6. Read and discuss current and historical case studies in biomedical ethics.
7. Define, build, and breakdown medical terms.
8. Describe and use (in lab and clinic) factors affecting radiographic quality.
9. List/describe structure and function of cassettes, screens, films, darkroom processors and chemicals, grids, cones, collimators and positioning aids.
10. Demonstrate the use of effective patient care procedures in lab and clinic.
11. Demonstrate in lab and clinic safe radiation practices for the patient, self, and others.
12. Properly position the patient (in lab and clinic) for radiographic demonstration of the lungs, abdomen, and extremities with 80% accuracy within reasonable time limits according to degree of difficulty utilizing the essential criteria.
13. Demonstrate problem-solving/critical thinking skills and cultural diversity skills in patient care management scenarios.

Major Topics

- I. History/Organizational Structure
- II. Professional Organizations
- III. Accreditation and Certification
- IV. Ethics
- V. Patient Care and Management
- VI. Medicolegal Considerations
- VII. Analyzing/Forming Medical Terminology
- VIII. Basic Radiation Protection
- IX. Components of Radiographic Quality
- X. Factors Affecting Radiographic Quality

- XI. Radiographic Anatomy/Positioning
- XII. General Osteology Review
- XIII. Basics of Radiographic Technique

Course Requirements

A combination of Lecture and Energized Lab experiences will be utilized to enable the student to comprehend the materials presented. All positioning learned in lecture will be practiced by students on each other during the lab period. Students will take appropriate radiographs on the phantom (when feasible), develop the radiographs, and critique each projection. In addition, the student will demonstrate proficient use of the laboratory energized X-ray equipment.

Grading/Exams: Grades will be determined by:

1.	Tests	40%
2.	Quizzes	15%
3.	Positioning Project	5%
4.	Lab Comps	10%
5.	Final	<u>30%</u>
TOTAL		100%

Attendance: All students are required to attend all lecture and college laboratory assignments.

Other Course Information

This is a Radiologic Technology Core course.