

# **COURSE OUTLINE**

**RAD-112**

**Clinical Radiography I**

5 Credit Hours

Received by

**HOWARD COMMUNITY COLLEGE**

from

**ANNE ARUNDEL COMMUNITY COLLEGE**

## **Description**

Clinical Radiology I is the first in a series of clinical courses that provides the student with opportunities to apply those theories learned in RAD 111. The student will complete specific clinical objectives in the areas of departmental procedures, routines, and radiography of the chest, abdomen, upper and lower extremities. All of these objectives and radiographic procedures will be accomplished under the direct supervision of a qualified registered Radiographer. This course provides the student with mastery skills in learning how to function in an imaging department. Students will rotate through areas in the department to achieve these skills and seek to achieve new skills in order to function in the radiographic room through observation, assisting, and performing supervision as deemed necessary.

## **Overall Course Objectives**

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

1. Identify various procedures accomplished in the support areas of the radiology department.
2. Utilize more appropriate rules of conduct concerning communication, medical ethics, and interpersonal relationships.
3. Organize more efficiently radiographic facilities as necessary for specific radiographic procedures.
4. Demonstrate mastery of more complex principles in safe operation of radiographic equipment.
5. Demonstrate effective use of technique manipulation to produce an optimum quality radiograph.
6. Apply radiation protection methods, as indicated by specific radiographic procedures during procedures, and exhibits these methods on the radiographs.
7. Evaluate optimum radiographic image quality, utilizing more efficiently the fundamental criteria.
8. Exhibit increased knowledge of problem-solving skills when applicable in clinical situations.
9. Demonstrate appropriate communication skills and ethical standards with patients, peers, and other professionals.
10. File and retrieve radiographs in the film library or other applicable archival procedure.
11. Safely transport and transfer patients.
12. Process radiographs.
13. Maintain proper care and storage of radiographic equipment and supplies.
14. Follow proper patient isolation procedures and universal precautions.
15. Perform a chest series competency examination on an ambulatory patient at the minimum 80% competency level.
16. Perform a single AP supine abdomen competency examination on a patient at the minimum 80% competency level.
17. Perform other related chest, abdominal, upper/lower extremities examinations (covered in RAD 111 course material) on a patient at the minimum 80% competency level.
18. Identify appropriate site protocols based on the student's level of training at the minimum 80% competency level.

19. Perform critical-thinking analyses of positioning and exposure skills related to various patient care scenarios of diverse populations.

### **Major Topics**

The student will rotate through the following areas of the imaging department during the semester:

1. Support areas such as patient registration, film library, dark room, and film sorting.
2. General radiography.
3. Fluoroscopy.
4. Portable Radiography
5. I.V.P./Tomography

(These areas may vary depending on the specific hospital imaging center affiliate and its resources.)

### **Course Requirements**

The student must complete five (5) competencies before the end of the semester. Students will complete required competency tests on the chest, abdomen, and upper extremities. This must include a two projection chest series and single AP abdomen projection which can also be part of an acute abdomen series and an upper extremity.

Grading/Exams: Grades will be determined by:

1.	Clinical Profiles (2)	50%
2.	Procedure Evaluations/Film Analyses	50%
3.	Clinical Accounting System	<u>Points determined at outprocessing</u>
TOTAL		100%

Attendance: The student must call and notify the clinical instructor or chief technologist at their clinical affiliate if for any reason he/she cannot report for clinical or cannot report on time.

### **Other Course Information**

This is a Radiologic Technology Core course.