Washtenaw Community College Comprehensive Report

RAD 112 Radiographic Positioning I Effective Term: Fall 2021

Course Cover

College: Health Sciences Division: Health Sciences Department: Allied Health Discipline: Radiography Course Number: 112 Org Number: 15600

Full Course Title: Radiographic Positioning I **Transcript Title:** Radiography Positioning I

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog, Time Schedule, Web Page **Reason for Submission:** Three Year Review / Assessment Report

Change Information:
Course description
Outcomes/Assessment
Objectives/Evaluation

Rationale: A far better assessment tool has been developed for the first three outcomes stated in the Master syllabus, and the fourth outcome is better evaluated in a clinical course. Therefore, the Master syllabus is being updated to reflect these changes.

Proposed Start Semester: Fall 2021

Course Description: In this course, students are introduced to the theories and practices that are utilized in the clinical setting to produce diagnostic radiographs of the chest, abdomen and upper extremities. Radiographic terminology, patient preparation, patient positioning, proper manipulation of radiographic equipment, radiation safety practices, image evaluation, professional standards and medical ethics will be discussed and practiced in the laboratory setting.

Course Credit Hours

Variable hours: Yes Credits: 0-2

Lecture Hours: Instructor: 15 Student: 15

Lab: Instructor: 45 Student: 45 Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 0 to 60 Student: 0 to 60

Repeatable for Credit: NO Grading Methods: Letter Grades

Audit

Are lectures, labs, or clinicals offered as separate sections?: YES (separate sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Requisites

Prerequisite

RAD 101 minimum grade "C-"

and

Prerequisite

RAD 110 minimum grade "C-"; may enroll concurrently

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Perform radiographic procedures of the chest, abdomen and upper extremities in accordance with current standards.

Assessment 1

Assessment Tool: Outcome-related practical lab exercises

Assessment Date: Fall 2023

Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 100% of students will score an overall

average of 90% or higher on the outcome-related exercises.

Who will score and analyze the data: A Radiography Program faculty member

2. Critically analyze radiographs of the chest, abdomen and upper extremities for patient positioning, exposure technique and image processing errors.

Assessment 1

Assessment Tool: Outcome-related practical lab exercises

Assessment Date: Fall 2023

Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 100% of students will score an overall

average of 90% or higher on the outcome-related exercises.

Who will score and analyze the data: A Radiography Program faculty member

3. Apply the principles of As Low As Reasonably Achievable (ALARA) when obtaining diagnostic radiographs of the chest, abdomen and upper extremities.

Assessment 1

Assessment Tool: Outcome-related practical lab exercises

Assessment Date: Fall 2023

Assessment Cycle: Every Three Years Course section(s)/other population: All Number students to be assessed: All

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 100% of students will score an overall

average of 90% or higher on the outcome-related exercises.

Who will score and analyze the data: A Radiography Program faculty member

Course Objectives

1. Apply radiographic theories and current positioning techniques to obtain optimal radiographs of the chest, abdomen and upper extremities.

- 2. Critique radiographs for patient positioning, exposure technique and image processing errors.
- 3. Identify normal anatomy and anatomical variants of the chest, abdomen and upper extremities.
- 4. Practice radiation safety in accordance with currently accepted guidelines.
- 5. Properly prepare a patient for radiographs of the chest, abdomen, and upper extremities.
- 6. Determine the appropriate ancillary devices needed to produce diagnostic radiographs of the chest, abdomen, and upper extremities.
- 7. Identify and name the anatomical structures that comprise the chest, abdomen, and upper extremities.
- 8. Identify and name the structures which must be included in each projection/image from radiographic exams of the chest, abdomen, and upper extremities.
- 9. Identify the radiation safety protocols for radiographing pregnant patients.
- 10. Identify the radiation safety protocols for radiographing pediatric patients.

New Resources for Course

Course Textbooks/Resources

Textbooks

Martensen, Kathy. Radiographic Image Analysis, 5th ed. Elsevier, 2018

Bontrager, Kenneth. Textbook of Radiographic Positioning & Related Anatomy, 10th ed. Elsevier, 2020

Bontrager, Kenneth. Radiographic Positioning & Related Anatomy Workbook & Laboratory Manual, 10th ed. Elsevier, 2020

Manuals Periodicals Software

Equipment/Facilities

Level III classroom

Testing Center

Other: Radiography Lab OE121

Reviewer	<u>Action</u>	Date
Faculty Preparer:		
Jim Skufis	Faculty Preparer	Mar 17, 2021
Department Chair/Area Director:		
Kristina Sprague	Recommend Approval	Mar 18, 2021
Dean:		
Valerie Greaves	Recommend Approval	Apr 13, 2021
Curriculum Committee Chair:		
Lisa Veasey	Recommend Approval	Apr 20, 2021
Assessment Committee Chair:		
Shawn Deron	Recommend Approval	Apr 22, 2021
Vice President for Instruction:		
Kimberly Hurns	Approve	Apr 26, 2021