Washtenaw Community College Comprehensive Report

RAD 110 Clinical Education
Effective Term: Winter 2020

Course Cover
Division: Health Sciences
Department: Allied Health
Discipline: Radiography
Course Number: 110
Org Number: 15600
Full Course Title: Clinical Education
Transcript Title: Clinical Education
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:
    Consultation with all departments affected by this course is required.
    Course description
    Outcomes/Assessment
    Objectives/Evaluation
    Other:
Rationale: Course update based on assessment report.
Proposed Start Semester: Fall 2019
Course Description: In this course, students will participate in 240 hours of structured clinical experience under the direct and indirect supervision of a registered radiographer. Students apply knowledge and skill in positioning the upper extremity, chest and abdomen for radiographic procedures. This course has a major focus on patient care and communication, requiring students to demonstrate professional ethics, empathy and professional behavior. Students will receive training in equipment operation, image processing, and radiation safety.

Course Credit Hours
Variable hours: No
Credits: 2
Lecture Hours: Instructor: 0 **Student:** 0
Lab: Instructor: 0 **Student:** 0
Clinical: Instructor: 240 **Student:** 240

Total Contact Hours: Instructor: 240 **Student:** 240
Repeatable for Credit: NO
Grading Methods: Letter Grades
Audit
Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing
College-level Reading & Writing

College-Level Math

Requisites

Prerequisite
RAD 101 minimum grade "C-"

General Education

Request Course Transfer
Proposed For:

Student Learning Outcomes

1. Perform radiographic positioning of the chest, abdomen and upper extremities.
> **Assessment 1**
>> Assessment Tool: Radiographic Procedure Evaluations
>> Assessment Date: Fall 2021
>> Assessment Cycle: Every Three Years
>> Course section(s)/other population: All sections
>> Number students to be assessed: All students
>> How the assessment will be scored: The assessment will be scored using the Radiographic Procedure Evaluation, which is a skills-based checklist. Each student will successfully complete three radiographic procedures including the chest, abdomen and an upper extremity.
>> Standard of success to be used for this assessment: 95% of students enrolled will earn the three required competencies for the semester.
>> Who will score and analyze the data: Radiography program faculty
>
> **Assessment 2**
>> Assessment Tool: Mid-semester and final simulation exams
>> Assessment Date: Fall 2021
>> Assessment Cycle: Every Three Years
>> Course section(s)/other population: All sections
>> Number students to be assessed: All students
>> How the assessment will be scored: The assessment will be scored using the mid-semester and final simulations. The simulations evaluate the student by using a checklist to evaluate the development of the students' psychomotor skills.
>> Standard of success to be used for this assessment: 90% of students will score an average score of 85% or higher on the two simulations.
>> Who will score and analyze the data: Radiography program faculty

2. Demonstrate operating knowledge of radiographic equipment.
> **Assessment 1**
>> Assessment Tool: Radiographic Procedure Evaluations
>> Assessment Date: Fall 2021
>> Assessment Cycle: Every Three Years
>> Course section(s)/other population: All sections
>> Number students to be assessed: All students
>> How the assessment will be scored: The assessment will be scored using the Radiographic Procedure Evaluation which is a skills-based checklist. Each student will successfully complete three radiographic procedures including the chest, abdomen and an upper extremity.
>> Standard of success to be used for this assessment: 95% of students enrolled will earn the three required competencies for the semester.
>> Who will score and analyze the data: Radiography program faculty
>
> **Assessment 2**
>> Assessment Tool: Mid-semester and final simulations
>> Assessment Date: Fall 2021
>> Assessment Cycle: Every Three Years
>> Course section(s)/other population: All sections

Number students to be assessed: All students

How the assessment will be scored: The students will be scored on their ability and consistency in aligning the central ray to the image receptor on each procedure in the simulation. It will be indicated on the simulation checklist for both simulations.

Standard of success to be used for this assessment: 75% of students will appropriately align the central ray and the image receptor for every procedure in the simulations.

Who will score and analyze the data: Radiography program faculty

3. Provide the appropriate patient care during the radiographic procedure.

Assessment 1

Assessment Tool: Final clinical performance evaluation

Assessment Date: Fall 2021

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: All students

How the assessment will be scored: The assessment will be evaluated using the Patient Safety and Patient Communication sections on the RAD 110 Clinical Performance Final Evaluation. This evaluation is based on a 4-point Likert scale.

Standard of success to be used for this assessment: 90% of students will achieve a score of three or higher indicating a satisfactory rating in every line item included in both the Patient Communication and Patient Safety sections on the RAD 110 Final Clinical Performance Evaluation.

Who will score and analyze the data: Radiography program faculty

Course Objectives

1. Demonstrate proper method for identifying a patient prior to their exam.
2. Maneuver tube into detent and other locking positions.
3. Place X-Ray tube at appropriate SID according to procedure.
4. Direct the central ray to the appropriate centering point.
5. Manipulate the patient and/or body part into the correct position to obtain a satisfactory image.
6. Align the central ray to the image receptor/bucky.
7. Demonstrate clear and professional communication during patient interactions.
8. Demonstrate proper marking of radiographic images using lead markers.
9. Demonstrate maximum radiation protection for patient and self.

New Resources for Course

Course Textbooks/Resources

Textbooks

Bontrager, K., Lampignano, J.. *Textbook of Radiographic Positioning and Related Anatomy*, 9th ed. Elsevier, 2018, ISBN: 9780323399661.

Manuals

Lampiganao, J. & Kendrick, L.. Bontrager's Handbook of Radiographic Positioning and Techniques, Elsevier, 01-01-2018

Periodicals

Software

Equipment/Facilities

Reviewer	Action	Date
Faculty Preparer:		
Erin Hammond	*Faculty Preparer*	*Aug 21, 2019*
Department Chair/Area Director:		

Kristina Sprague	*Recommend Approval*	*Aug 21, 2019*

Dean:

Valerie Greaves	*Recommend Approval*	*Aug 23, 2019*

Curriculum Committee Chair:

Lisa Veasey	*Recommend Approval*	*Sep 14, 2019*

Assessment Committee Chair:

Shawn Deron	*Recommend Approval*	*Sep 20, 2019*

Vice President for Instruction:

Kimberly Hurns	*Approve*	*Sep 26, 2019*