

Washtenaw Community College Comprehensive Report

RAD 222 Pharmacology in Diagnostic Imaging Effective Term: Fall 2021

Course Cover

College: Health Sciences

Division: Health Sciences

Department: Allied Health

Discipline: Radiography

Course Number: 222

Org Number: 15600

Full Course Title: Pharmacology in Diagnostic Imaging

Transcript Title: Pharmacology Diagnostic Imaging

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

Objectives/Evaluation

Rationale: Updated due to an assessment report.

Proposed Start Semester: Fall 2021

Course Description: In this course, students are introduced to pharmacology and contrast media administration as it relates to the medical imaging profession. Students will gain an understanding of diagnostic contrast media and the effects of these agents on the human body. They will also receive instruction in basic techniques of venipuncture, appropriate patient care practices during drug administration and management of medical emergencies in the diagnostic imaging department.

Course Credit Hours

Variable hours: No

Credits: 2

Lecture Hours: Instructor: 30 **Student:** 30

Lab: Instructor: 0 **Student:** 0

Clinical: Instructor: 0 **Student:** 0

Total Contact Hours: Instructor: 30 **Student:** 30

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 150 minimum grade "C-"; may enroll concurrently

General Education

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Demonstrate appropriate patient care practices required for general and special radiographic procedures.

Assessment 1

Assessment Tool: Practical lab evaluation

Assessment Date: Fall 2022

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: Lab checklist (yes or no)

Standard of success to be used for this assessment: 80% of the students will achieve a score of 100% for the practical skills evaluation.

Who will score and analyze the data: Departmental faculty

2. Identify the different physiological reactions associated with iodinated contrast administration.

Assessment 1

Assessment Tool: Departmental final exam using Blackboard

Assessment Date: Fall 2022

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: Answer key

Standard of success to be used for this assessment: 80% of the students will score 70% or above for the exam.

Who will score and analyze the data: Departmental faculty

Course Objectives

1. Demonstrate the protocol for setting up for a venipuncture procedure.
2. Simulate the proper method to perform a venipuncture procedure.
3. State the basic levels of anaphylactic shock demonstrated in a patient after the administration of iodinated contrast media.
4. Demonstrate venipuncture techniques for the administration of iodinated contrast media.
5. List medical emergencies that are commonly seen in the Radiology Department.
6. Explain the protocols for managing the medical emergencies that occur in the Radiology Department.
7. Identify, explain, and document complications associated with the administration of radiopaque contrast media.
8. Explain the actions, uses, and side effects of select drugs.
9. Explain the imaging technologist's professional liability concerning drug administration.
10. Describe the basic concepts of pharmacology.

New Resources for Course

Course Textbooks/Resources

Textbooks

Jensen, S. Peppers, M.. *Pharmacology & Drug Administration for Imaging Technologists*, current ed. Mosby, 2006, ISBN: 978-0-323-030.

Manuals

Periodicals

Software

Equipment/Facilities

Level III classroom

Testing Center

Other: OE 121 Radiography Lab

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Jim Skufis</i>	<i>Faculty Preparer</i>	<i>Mar 17, 2021</i>
Department Chair/Area Director: <i>Kristina Sprague</i>	<i>Recommend Approval</i>	<i>Mar 19, 2021</i>
Dean: <i>Valerie Greaves</i>	<i>Recommend Approval</i>	<i>Apr 13, 2021</i>
Curriculum Committee Chair: <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Apr 20, 2021</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Apr 22, 2021</i>
Vice President for Instruction: <i>Kimberly Hurns</i>	<i>Approve</i>	<i>Apr 26, 2021</i>