

Washtenaw Community College Comprehensive Report

RAD 222 Pharmacology in Diagnostic Imaging Effective Term: Winter 2015

Course Cover

Division: Math, Science and Health

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: Course Change

Change Information:

Pre-requisite, co-requisite, or enrollment restrictions

Rationale: To better align the radiography curriculum, RAD 222 has been moved from the Winter semester to the Fall semester, which now requires a change in the course prerequisites.

Proposed Start Semester: Fall 2014

Course Description: In this course, students are provided with an introduction to pharmacology and contrast media administration as it relates to the medical imaging profession. Students gain an understanding of diagnostic contrast media and the effects of these agents on the human body. Students 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 2013

Assessment Cycle: Every Three Years

Course section(s)/other population: One section of this course is offered per year.

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: Faculty

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

Assessment 1

Assessment Tool: Departmental final exam using Blackboard

Assessment Date: Fall 2013

Assessment Cycle: Every Three Years

Course section(s)/other population: One section of this course is offered per year.

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: Faculty

Course Objectives

1. Demonstrate the protocol for setting up for a venipuncture procedure.

Matched Outcomes

2. Simulate the proper method to perform a venipuncture procedure.

Matched Outcomes

3. State the basic levels of anaphylactic shock demonstrated in a patient after the administration of iodinated contrast media.

Matched Outcomes

4. Demonstrate venipuncture techniques for the administration of iodinated contrast media.

Matched Outcomes

5. List medical emergencies that are commonly seen in the Radiology Department.

Matched Outcomes

6. Explain the protocols for managing the medical emergencies that occur in the Radiology Department.

Matched Outcomes

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>Connie Foster</i>	<i>Faculty Preparer</i>	<i>Apr 08, 2014</i>
Department Chair / Area Director: <i>Connie Foster</i>	<i>Recommend Approval</i>	<i>Apr 08, 2014</i>
Dean: <i>Martha Showalter</i>	<i>Recommend Approval</i>	<i>Apr 25, 2014</i>
Vice President for Instruction: <i>Bill Abernethy</i>	<i>Approve</i>	<i>Aug 21, 2014</i>