

Washtenaw Community College Comprehensive Report

MED 104 Medical Assistant Math and Pharmacology Effective Term: Winter 2020

Course Cover

Division: Health Sciences

Department: Allied Health

Discipline: Medical Office Worker

Course Number: 104

Org Number: 15900

Full Course Title: Medical Assistant Math and Pharmacology

Transcript Title: Med Asst Math and Pharmacology

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:

Consultation with all departments affected by this course is required.

Rationale: Conditionally approved; seeking full approval.

Proposed Start Semester: Winter 2020

Course Description: In this course, students will review basic math, learn how to safely calculate drug dosages, and administer medications by oral, injectable, and other routes. Students will also learn the classifications of drugs, the top medications in those categories, and relevant dietary requirements for specific patients.

Course Credit Hours

Variable hours: No

Credits: 1

Lecture Hours: Instructor: 15 Student: 15

Lab: Instructor: 0 Student: 0

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 15 Student: 15

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

Reduced Reading/Writing Scores

College-Level Math

Requisites

Prerequisite

Academic Reading Level 5; Academic Writing Level 3
and

Prerequisite

Admission to Medical Assisting program

General Education

Degree Attributes

Below College Level Pre-Reqs

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Apply mathematical computations to solve equations.

Assessment 1

Assessment Tool: Outcome-related questions on departmental exam

Assessment Date: Winter 2023

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 80% of students will score 75% or higher

Who will score and analyze the data: Departmental faculty

2. Calculate proper dosages of medication for administration.

Assessment 1

Assessment Tool: Outcome-related questions on departmental exam

Assessment Date: Winter 2023

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 80% of students will score 75% or higher

Who will score and analyze the data: Departmental faculty

3. Administer parenteral (excluding IV) medications.

Assessment 1

Assessment Tool: Skill check-off sheets

Assessment Date: Winter 2023

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Rubrics

Standard of success to be used for this assessment: 80% of students will score 85% or higher

Who will score and analyze the data: Departmental faculty

4. Identify relevant dietary requirements and the classifications of medications including indications for use, desired effects, side effects, and adverse reactions.

Assessment 1

Assessment Tool: Outcome-related questions on departmental exam

Assessment Date: Winter 2023

Assessment Cycle: Every Three Years

Course section(s)/other population: All

Number students to be assessed: All

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 80% of students will score 75% or higher

Who will score and analyze the data: Departmental faculty

Course Objectives

1. Demonstrate knowledge of basic math computations.
2. Apply mathematical computations to solve equations.
3. Define basic units of measurement in the metric system and the household system.
4. Convert between measurement systems.
5. Identify abbreviations and symbols used in calculating medication dosages.
6. Analyze healthcare results as reported in graphs and tables.
7. Calculate proper dosages of medication for administration.
8. Differentiate between normal and abnormal test results.
9. Maintain lab test results using flow sheets.
10. Document on a growth chart.
11. Reassure a patient of the accuracy of the test results.
12. Identify the classifications of medications including indications for use, desired effects, side effects, and adverse reactions.
13. Verify the rules of medication administration: right patient, right medication, right dose, right route, right time, and right documentation.
14. Select proper sites for administering parenteral medication.
15. Administer oral medications.
16. Administer parenteral (excluding IV) medications.
17. Incorporate critical thinking skills when performing patient assessment.
18. Incorporate critical thinking skills when performing patient care.
19. Show awareness of a patient's concerns related to the procedure being performed.
20. Describe dietary nutrients including carbohydrates, fat, protein, minerals, electrolytes, vitamins, fiber, and water.
21. Define the function of dietary supplements.
22. Identify the special dietary needs for weight control, diabetes, cardiovascular disease, hypertension, cancer, lactose sensitivity, gluten-free, and food allergies.
23. Instruct a patient according to the patient's special dietary needs.
24. Show awareness of a patient's concerns regarding a dietary change.

New Resources for Course

Course Textbooks/Resources

Textbooks
Manuals
Periodicals
Software

Equipment/Facilities

<u>Reviewer</u>	<u>Action</u>	<u>Date</u>
Faculty Preparer: <i>Rhonda Johns</i>	<i>Faculty Preparer</i>	<i>Sep 09, 2019</i>
Department Chair/Area Director: <i>Kristina Sprague</i>	<i>Recommend Approval</i>	<i>Sep 09, 2019</i>
Dean: <i>Valerie Greaves</i>	<i>Recommend Approval</i>	<i>Sep 09, 2019</i>
Curriculum Committee Chair: <i>Lisa Veasey</i>	<i>Recommend Approval</i>	<i>Oct 04, 2019</i>
Assessment Committee Chair: <i>Shawn Deron</i>	<i>Recommend Approval</i>	<i>Oct 10, 2019</i>
Vice President for Instruction:		

