

COURSE OUTLINE

MATH-105

Drug Calculations

1 Semester Hour

HOWARD COMMUNITY COLLEGE

Description

Students will develop skills in the metric, apothecary and household systems of measurement. Drug calculation problems will provide the student with the opportunity to practice conversions between systems. Students will perform the computations necessary to administer medications in liquid, tablet, and capsule form. Prerequisite: MATH 060 or appropriate score on math placement test. (2 hours weekly for 7 weeks). Note: Also listed as HEAL-105.

Overall Course Objectives

Upon completion of this course, the student will be able to:

1. Use the metric, apothecary, and household systems of measurement.
2. Convert from one system to another.
3. Perform the computations necessary to administer reconstituted medications and oral medication in liquid, tablet, or capsule form.
4. Perform the computations necessary to administer injections.
5. Determine the rate to infuse fluids.
6. Determine how much liquid is needed to dissolve dry powders so that the proper amount of the drug is administered.

Major Topics

- I. Metric, Apothecary and Household Systems of Measurement
- II. Medication Dosages
- III. Reconstituted Medications
- IV. Intravenous fluids

Course Requirements

Grading/Exams: Grading procedures will be determined by the individual faculty member but will include the following:

A departmental midterm and a departmental comprehensive final exam.

Other Course Information

This course satisfies a math requirement for the Practical Nurse Program. It does not transfer to a four-year program and is not a mathematics core course.