

Common Course Outline
NURN 006
Dosage for Advanced Placement Nursing
0 Semester Hours

The Community College of Baltimore County

Description

NURN 006 – 0 Credits – Dosage for Advanced Placement Nursing reviews the mathematical skills necessary for the safe preparation of medications for adult and pediatric clients. Formulas for calculating drug dosages for oral, topical, and parenteral medications are presented in a clinical situation format. This is a mastery level course, where students will have four opportunities to achieve an established benchmark.

Overall Course Objectives

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

1. compute basic math problems, including fractions and decimals;
2. convert units of measurement within the metric system, and between the metric system and the household system;
3. interpret dosage information correctly on drug labels;
4. calculate amount of tablets, capsules, and liquid volume needed for administering orally prescribed drugs;
5. calculate dosages of drugs supplied in units or milli-equivalents;
6. calculate dosages of powder and/or liquid drugs for injection from vials and ampules;
7. compute weight-based dosage;
8. calculate hourly flow rate and drops/minute rate of intravenous fluids;
9. calculate drug/dosage times using international time; and
10. select the correct formula and calculate dosage problems according to the rounding rules provided.

Major Topics

- I. Fraction and decimal computations
- II. Metric and household measurement systems
- III. Interpretation of drug labels
- IV. Ratio/proportion calculations and desired/have x quantity(D/H x Q) formulas
- V. Intravenous rate calculation
- VI. Weight based dosage
- VII. International time

Course Requirements

NURN 006 is a mastery level course. Students will have four (4) opportunities to achieve a score of 95% or greater on the dosage exam. This means that there will be four (4) scheduled test days, and if the student begins testing on the first testing date, there will be four (4) opportunities to pass. However, if the student misses the first testing date, there will only be three (3) opportunities to test and pass, and so on. It is the student's responsibility to start testing at the first scheduled opportunity in order to take advantage of all four (4) opportunities.

Students will be permitted to take only one test per day.

A maximum of 60 minutes will be allowed for the completion of NURN 006 dosage tests.

Grading/exams:

All student must pass a 20 question dosage exam with a score of 95% or higher.

Grading: S = 95% or greater on final exam

U = less than 95% on final exam

If the student is unsuccessful on the 4th scheduled test, the student will not be permitted to begin or advance in a nursing course.

Students are only allowed to take NURN 006 once during a semester.