MATH 100B - Math for Allied Health Programs (3 Credits)

DESCRIPTION:

A course designed to provide the mathematics skills used in allied health fields. Topics include operations with fractions and decimals, measurement systems, percents, ratios and proportions, drug calculations, and IV flow rates.

TEXT:

Math and Dosage Calculations for Healthcare Professionals, 4th Edition; Booth & Whaley

NOTE: Full-time instructors have the right to use no text or a different text.

OUTLINE:

Unit 1: Overview of Basic Math (All Chapters)
Unit 2: Systems of Measurement (All Chapters)
Unit 3: Principles of Medication Administration (All Chapters)
Unit 4: Basic Dosage Calculations (All Chapters)
Unit 5: Calculations Used in Specialty Areas (All Chapters)

OUTCOMES:

a. Work with fractions and operations on fractions.
b. Work with decimal notation, including conversion to fractions and percents.
c. Work with percents, including conversion to fractions and decimals.
d. Solve problems using ratios and proportions.
e. Work with basic Roman numerals.
f. Understand various systems of measurement and their equivalencies.
g. Perform conversions within and between systems of measurement.
h. Solve medication problems involving equivalencies and complications.
i. Solve medical problems involving interpretation of solution concentration.
j. Solve medical problems involving IV flow rates.
k. Apply and extend all concepts.

EVALUATION:

Grades will be determined by student performance in one or more of the following areas: in-class tests, take-home tests, homework assignments, quizzes, special projects, papers, attendance, and class participation. Degree of importance and types of assessment used will depend on the instructor.

This course can only be applied as the Math component of AAS degrees or certificate programs in specific allied health programs at CSN.

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