

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 Health Care, 3E, Booth & Whaley

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

OUTLINE:

Chapter 01 - Fractions and Decimals
Chapter 02 - Percents, Ratios, and Proportions
Chapter 03 - Systems of Weights and Measures
Chapter 04 - Equipment for Dosage Measurement
Chapter 05 - Drug Orders
Chapter 06 - Drug Labels and Package Inserts
Chapter 07 – Methods of Dosage Calculations
Chapter 08 - Oral Dosages
Chapter 09 - Parenteral Dosages
Chapter 10 - Intravenous Dosages
Chapter 11 - Calculations for Special Populations
Chapter 12 - Specialized Calculations

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. However, at least 50% of the course grade used is to be determined by proctored individual exams/assessments.

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