

AH 105 : MATH FOR HEALTH SCIENCES

Transcript title

Math for Health Sciences

Credits

3

Grading mode

Standard letter grades

Total contact hours

30

Lecture hours

30

Prerequisites

MTH 015 (or higher) or minimum placement Math Level 7.

Course Description

Reviews basic mathematical skills required to perform calculations without a calculator. The second portion of the class introduces application of mathematical concepts to solve clinically relevant problems by the student's specific Health Science program(s).

Course learning outcomes

1. Demonstrate mental math skills, number sense, and proportional reasoning.
2. Demonstrate application of basic math computations with whole numbers, fractions, decimals, and percents.
3. Apply mathematical computations to solve linear equations; in particular, proportions.
4. Identify and appropriately use, in context, basic units of measurement in the metric, household, and apothecary measurement systems.
5. Convert among measurement systems.
6. Identify abbreviations and understand symbols used in calculating medication dosages.
7. Apply mathematical concepts studied in this course to discipline specific problems.

Content outline

1. Multiplication, division, and rounding
2. Ratios, reduction, and equivalencies
3. Decimals and percents
4. Proportions
5. Metric, household, apothecary measurements
6. Discipline-specific application of earlier math concepts

Required materials

This course may require a textbook and/or software.

General education/Related instruction lists

- Computation