

MATH 091 - Basics of Mathematics (3 Credits)

DESCRIPTION:

A course in arithmetic. Topics include fractions, decimals, measurements, percents, ratios and proportions.

TEXT:

Basic College Mathematics; 8th edition; Lial, Salzman, and Hestwood

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

OUTLINE:

Ch 01 - Sections 1.1 - 1.10

Ch 02 - Sections 2.1 - 2.8

Ch 03 - Sections 3.1 - 3.5

Ch 04 - Sections 4.1 - 4.6

Ch 05 - Sections 5.1 - 5.5

Ch 06 - Sections 6.1 - 6.6

Note: Do 6.3 and/or 6.4

Note: Sections 6.7 and 6.8 are optional

Ch 07 - Sections 7.1 - 7.5

Ch 08 - Sections 8.1 - 8.3, 8.5

Note: Sections 8.4, 8.6, 8.7, and 8.8 are optional

Ch 10 - Sections 10.1 - 10.3

Note: Section 10.4 is optional

OUTCOMES:

- a. Perform operations of addition, subtraction, multiplication, and division, and apply them to problems involving whole numbers, fractions and decimals.
- b. Perform computations using order of operations.
- c. Solve problems involving ratio, proportion, and percent.
- d. Compute perimeters, and areas of basic geometric shapes.
- e. Convert within and between various measurement systems.
- f. Collect data, construct a variety of graphs from data, and interpret graphical representations of data.
- g. 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 DOES NOT satisfy the Math component of a degree or certificate program at CSN.