

MATH 095 - Elementary Algebra (3 Credits)

DESCRIPTION:

A course in the fundamental operations of real numbers, solving linear equations in one variable, polynomials, quadratic equations in one variable, and introduction to graphing. Intended to provide a basic foundation for future mathematics needed in fields of business, economics, engineering and related fields. Strong background in fractions and positive and negative numbers is highly recommended.

Prerequisite: Math 093 or Math 116 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

TEXT:

Beginning and Intermediate Algebra, 4th Edition, Lial, Hornsby, and McGinnis

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

OUTLINE:

Ch 01 - A one-day review is suggested.

Ch 02 - Sections 2.1 - 2.8

Ch 09 - Sections 9.1 and 9.2

Ch 03 - Sections 3.1 and 3.2

Ch 04 - Sections 4.1 - 4.7

Ch 05 - Sections 5.1 - 5.6

OUTCOMES:

- a. Be able to work with real numbers, exponents, and polynomial arithmetic.
- b. Solve linear equations and inequalities.
- c. Factor polynomials and solve equations by factoring.
- d. Solve absolute value equations and inequalities.
- e. Graph linear equations in two variables.
- f. 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.