MATH 126 - Precalculus I (3 Credits)

DESCRIPTION:

A rigorous discussion of algebra concepts necessary for calculus is the focal point of this course. Topics include an in-depth investigation of algebraic functions and their graphs and solutions of systems of equations. Prerequisite: Math 096 or Math 097 both with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

NOTE: This course serves as a prerequisite for math 127 which is essential for students planning to take calculus.

TEXT:

Precalculus; 9th Edition; Sullivan

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

OUTLINE:

Ch 1 - All Sections
Ch 2 - Sections 2.1 - 2.5
Ch 3 – Sections 3.1-3.5
Ch 4 – Sections 4.1-4.6
Ch 5 – Sections 5.1-5.8
Ch 11 - Sections 11.1, 11.6

OUTCOMES:

a. Solve polynomial, exponential and logarithmic equations.
b. Work with the Cartesian coordinate system, being able to graph linear, exponential, polynomial absolute value, square root, piecewise defined, rational and logarithmic functions.
c. Understand function concepts, including operations on functions, and inverse functions.
d. Solve systems of linear and nonlinear equations.
e. 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 is to be determined by proctored individual exams/assessments.

This course satisfies or partially satisfies the Math component of a degree or certificate program at CSN.