MATH 127 - Precalculus II (3 Credits)

DESCRIPTION:

Topics include an in-depth investigation of trigonometric functions and their graphs, analytic trigonometry, solutions of triangles, vectors and analytic geometry. Prerequisite: Math 126 with a grade of C or better; or a satisfactory ACT/SAT/Placement Test score.

TEXT:

Precalculus, 9th edition; Sullivan
NOTE: Full-time instructors have the right to use a different text or no text.

OUTLINE:

Ch 6 - All Sections
Ch 7 - All Sections
Ch 8 – All Sections
Ch 9 - Sections 9.1, 9.4
Ch 10 – Sections 10.1-10.4, 10.7

OUTCOMES:

a. Analyze trigonometric and parametric function properties.
b. Graph trigonometric and parametric functions
c. Verify trigonometric identities.
d. Solve trigonometric and parametric equations.
e. Solve triangles using the Laws of Sines and Cosines.
f. Analyze the concepts of vectors and polar coordinates.
g. Investigate properties of conic sections.
h. 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.

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