

**COLUMBUS STATE COMMUNITY COLLEGE
MATHEMATICS DEPARTMENT COURSE SYLLABUS**

COURSE NUMBER: Math 150

COURSE NAME: Precalculus

CREDIT HOURS: 5

FOLLOW UP COURSE: Math 151

PREREQUISITE: MATH 148 with at least a “C” grade, or placement by ASSET or COMPASS

COURSE DESCRIPTION

A study of the trigonometric functions, vectors, and conic sections.

Topics include right triangle trigonometry; trigonometry of general angles; the unit circle; the graphs of the trigonometric functions; analytical trigonometry; inverse trigonometric functions; verifying identities; solving trigonometric equations; the Law of Sines; the Law of Cosines; applications of trigonometry; polar equations and their graphs; geometric and algebraic vectors; vector applications; the conic sections are defined and analyzed algebraically and graphically.

GOALS OF COURSE

To provide the final preparation for a student planning to begin a study of calculus. To promote further development in the student’s ability to think and to reason mathematically.

TEXTBOOK AND SPECIAL EQUIPMENT REQUIRED

- Algebra and Trigonometry, Enhanced with Graphing Utilities, 5th Edition, Sullivan/Sullivan, Prentice Hall, 2009.
- Student Study Pack (includes the Student Solutions Manual and other resources - OPTIONAL).
- My Math Lab/Course Compass – OPTIONAL
- Texas Instruments’ TI-83, TI-83PLUS, TI-84, or TI-84PLUS Graphing Calculator

(REQUIRED)

Note: Graphing calculators such as the TI-89 and TI-92 that perform symbolic manipulations