

Mathematics: Math 1130: College Trigonometry

MATH 1720 - VSCC PRECALCULUS II (TRIGONOMETRY) 3 Credit Hours

Important information about the course is contained in this Syllabus. You should carefully read the entire document, and make sure you understand all course Policies and Procedures. You may want to PRINT it for future reference.

Course Information

Course Description:

Designed as a course for students who plan to major in mathematics and/or science and are not prepared to take calculus. Topics include the trigonometric functions of the acute and general angle, applications of right triangles, identities, related angles and the reduction formulas, radian measure, graphs and graphical methods of the trigonometric functions, applications, and inverse trigonometric functions.

Course Objectives:

As a result of successfully completing this course, students will have demonstrated an acceptable level of mastery of the basic concepts and principles of trigonometry and an understanding of mathematical logic necessary to apply these concepts and principles to problem solving. Acceptable mastery of the course contents will indicate a trigonometry background necessary to pursue further course work in mathematics and other areas in which Pre-Calculus II is a prerequisite.

Prerequisites and Corequisites:

MATH 1710 with a grade of C or better. MATH 1130 will not substitute for the MATH 1710 prerequisite. This prerequisite is necessary to assure the student has the algebra skills necessary for successful completion of the course.

Course Topics:

The Trigonometric Functions
Angles
Trigonometric Functions of Angles
Trigonometric Functions of Real Numbers
Values of the Trigonometric Functions
Trigonometric Graphs
Applies Problems
Analytic Trigonometry
Verifying Trigonometric Identities
Trigonometric Equations
The Addition and Subtraction Formulas
Multiple-Angle Formulas
Product-to-Sum and Sum-to-Product Formulas
The Inverse Trigonometric Functions
Applications of Trigonometry
The Law of Sines
The Law of Cosines

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