



South Central College

MATH 125 Trigonometry

Course Outcome Summary

Course Information

Description

A study of the six trigonometric functions, their inverses and their applications forms the heart of this course. First, the two

Solve trigonometric conditional equations

10. Deduce various conversion formulas

Learning Objectives

Prove the sum and difference formulas

Prove the double-angle formula

Prove the half-angle formula

Prove the sum-to-product formula

Prove the product-to-sum formula

11. Apply the trigonometric functions to angle, length and area measurement problems

Learning Objectives

Interpret the trigonometric functions as functions of acute angle measure

Solve right triangle problems using trigonometry

Deduce the Law of Sines

Deduce the Law of Cosines

Deduce Heron's formula for the area of a triangle

12. Model periodic phenomena with the trigonometric functions

Learning Objectives

Explain simple harmonic motion

Review notions of period, phase shift and amplitude

Examine classical applications of simple harmonic motion

13. Graph equations

