



PLANNED COURSE STATEMENT

Course Title: TRIGONOMETRY	Grade Level(s): 10-12
Length of Course: 1 trimester	Credit Area: Math
Prerequisite: Algebra II	Amount of Credit: ½ Credit
Adopted/Supplemental Materials: McDougal-Littell Algebra II text	
Dual Credit Articulation:	

COURSE DESCRIPTION:

This course is designed for students who wish to continue to Pre-Calculus or College Algebra the following year. Discussions and assessment will focus on trigonometry and a few of its applications. Students will be using graphing calculators throughout the course.

COURSE GOALS:

Students will:

1. Convert radian and degree measures
2. Use and apply common angles (multiples of $\pi/6$ and $\pi/4$) via the unit circle
3. Use inverse trig functions to find angles
4. Solve right and oblique triangles using a variety of methods, including Law of Sines and Law of Cosines.
5. Solve trigonometric equations
6. Graph and analyze (extrapolate information including amplitude, period length, and transformations) trigonometric functions
7. Apply trigonometric and Pythagorean identities
8. Apply and investigate vectors
9. Use trigonometry to convert between rectangular and polar coordinates
10. Graph polar equations

ASSESSMENT STRATEGIES:

Daily assignments, quizzes and tests, labs, teacher evaluations and observations.

ACCOMMODATIONS AND MODIFICATIONS:

Students with IEP's and PEP's will be accommodated by modifications of assignments

CAREER RELATED LEARNING STANDARDS:

Students will have college entrance skills, careers in math, science, and technology, competence in problem solving and personal management. The course goals are aligned with several Oregon University standards in College Algebra.