

COURSE SYLLABUS

Course Title:	Trigonometry Functions		Date submitted:	Spring 2014 (AAC: 14-92)
Department:	Mathematics & Science			
Curriculum:	Mathematics			
Course Descriptors: Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system.	Course Code: (eg. ACC 101)	MAT*185	Prerequisites: C- or better in Intermediate Algebra (MAT*137) OR C- or better in Elementary Algebra/Intermediate Algebra Combined (MAT*139) or equivalent or placement test score.	
	Course Type:	L		
	A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: Internship M: Seminar P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/ Clinical/Lab Z: Combined Lecture/Studio			
	Elective Type:	G/LAS/M		
	AH: Art History E: English FA: Fine Arts FL: Foreign Language G: General HI: History HU: Humanities LAS: Liberal Arts & Sciences M: Math S: Science SS: Social Science			
	Credit Hours:	3	Corequisites: None	
	Developmental: (yes/no)	No		
	Lecture:	3		
	Clinical:	0		
	Lab:	0		
Studio:	0			
Contact Hours:	Other: 0			
	TOTAL: 3			
Class Maximum:	35	Other Requirements: None		
Semesters Offered:	F/S/Su			
Ability Based Education (ABE) Statement:	At Tunxis Community College students are assessed on the knowledge and skills they have learned. The faculty identified the General Education Abilities critical to students' success in their professional and personal lives. In every class, students are assessed on course abilities, sometimes program abilities, and, in most classes, at least one General Education Ability. Students will receive an evaluation of the degree to which they have demonstrated or not demonstrated that General Education Ability.			
Catalog Course Description:	Properties of real number systems, relations, functions, inverses, and their graphs. Other topics include circular functions, identities, graphs, inverses, exponential and logarithmic functions, angular measures, and solutions of triangles.			
Topical Outline: List course content in outline format.	1. The Circular Functions Trigonometry Definitions – Sine, Cosine, etc. Fundamental Circular Identities Special Reduction Formulas General Reduction Formulas			

	<p style="text-align: center;">Identities</p> <ol style="list-style-type: none"> 2. Triangle Solution <ul style="list-style-type: none"> The Right Triangle Oblique Triangles 3. Vectors 4. Law of Sines <ul style="list-style-type: none"> Law of Cosines 5. Trig Equations
<p>Outcomes: Describe measurable skills or knowledge that students should be able to demonstrate as evidence that they have mastered the course content.</p>	<p>Upon successful completion of this course, the student will be able to do the following:</p> <p>COURSE: This course introduces the student to trigonometry from a functional approach. At the end of this course the student will be able to solve right triangles, oblique triangles, to find the trig function of any angle, to solve trigonometric identities, and to solve trig equations.</p> <p>PROGRAM: <i>(Numbering reflects Program Outcomes as they appear in the college catalog)</i></p> <p>GENERAL EDUCATION: <i>(Numbering reflects General Education Outcomes as they appear in the college catalog)</i></p> <p>7. Quantitative Reasoning -Students will learn to recognize, understand, and use the quantitative elements they encounter in various aspects of their lives. Students will develop a habit of mind that uses quantitative skills to solve problems and make informed decisions.</p> <p>Demonstrates: Interprets numerical information and applies sufficient laws of logic and mathematics to solve problems using numbers, symbols, graphs and/or descriptions.</p> <p>Does Not Demonstrate: Misinterprets numerical information or insufficiently applies laws of logic and mathematics to solve problems using numbers, symbols, graphs and/or descriptions.</p>
<p>Evaluation: List how the above outcomes will be assessed.</p>	<p>Assessment will be based on the following criteria:</p> <ol style="list-style-type: none"> 1. 2.
<p>Instructional Resources: List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.</p>	<p>Required:</p> <p>Desired:</p>
<p>Textbook(s)</p>	<p>Refer to current academic year printout.</p>