Math 105 Trigonometry, 3 credits

Trigonometric functions, equations and identities, inverse trigonometric functions, solving triangles, complex numbers and polar coordinates.

1. To develop an understanding of trigonometric functions.
2. Application of trigonometric functions towards the solution of triangles.
3. Understanding the use and application of a graphing calculator towards the solving of trigonometric exercises.
4. Application of trigonometric functions to graphs, identities, equations, and vectors.

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MWF 9:00-10:00
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MWF 1:00-1:50
Nelson Science Center 104

TI-83 or TI-84 Series
Course Requirements:

The sequential nature of mathematics deems it necessary for students to attend class on a regular basis, therefore one of the course requirements is regular attendance. Grades will be based on exams and selected homework assignments using the following scale.

A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%
F = 59-0%

Tentative Course Outline:

CH 1  The Measurement of Angles, Arcs, and Sectors
CH 2  The Trigonometric Functions
CH 3  Graphs of the Trigonometric Functions
CH 4  The Inverse Trigonometric Functions
CH 5  Trigonometric Equations
CH 6  Oblique Triangles and Vectors
CH 7  Complex Numbers and Polar Coordinates

General Education Goals/Objectives:

Goal 2: Demonstrates knowledge and application of technology
Objective 2: Uses electronic resources for course related assignments and information
Skill 1: Selects appropriate program on the graphing calculator to solve problems

Goal 3: Demonstrates the ability to convert, calculate, and analyze a variety of mathematical problems
Objective 1: Utilizes mathematical equations to solve problems
Skill1: Solves equations and problems using the appropriate method
Objective 2: Applies practical application of mathematics to everyday life
Skill3: Solves word problems

Relationship to Campus Theme:

Mathematics 105 emphasizes technology through the use of graphic calculators and nature through navigation.

Classroom Policies:

Please refrain from any behavior that would disrupt the class. Cell phones can only be used in emergency situations and they must be turned to vibrate. The academic environment is an open and harassment free environment. Participation is encouraged.
Academic Integrity:

If there is evidence of cheating on an exam the student will receive an F on the respective exam or assignment.

Disabilities and Special Needs:

Please inform instructor of any special needs during the first week of class