Math 132 *College Trigonometry with Analytical Geometry*

Instructor:

Dr. Thomas Fitzkee   http://people.fmarion.edu/tfitzkee/
LSF-403
661-1572   *Phone mail can be used to leave messages.*
tfitzkee@fmarion.edu   *Students are encouraged to use email for faster responses.*
Office hours: Monday, Wednesday, Friday   10:30-11:30am, 1:30-2:30pm
                     Tuesday, Thursday   8:45-9:45am, 1:30-2:30pm
                     Other times are available by appointment.

Class Information:

Math 132-2 section 4092   TTh 9:55am-11:10am LSF307   **Final Exam: April 26, 3-5pm**
Math 132-3 sections 6895, 7578 TTh 11:20am-12:45pm LSF307   **Final Exam: April 27, 3-5pm**

Text: Analytic Trigonometry (11th Edition) by Barnett, Ziegler, Byleen, and Sobecki

Calculator: A graphing calculator is needed. (TI-83+ or greater is suggested.)

Prerequisites: Grade of C or higher in Math 111 or placement scores.

Course Description:

The aim of this course is to help students develop an understanding of trigonometry and to show them how trigonometry can be used as a modeling language for real-life problems. Techniques used encourage students to use CRITICAL THINKING as they process information. Critical thinking is a procedure which involves assessment, analysis, synthesis, evaluation, and appropriate action.   Topics covered are based on preparing the students for further study of math or science.

Course Objectives:

Upon completion of this course the student will be able to:
- work with both degree and radian measures of angles
- use the unit circle to evaluate trigonometric expressions of special angles
- evaluate trigonometric expressions
- graph trigonometric functions
- identify and prove trigonometric identities
- solve trigonometric equations
- solve right triangles and oblique triangles
- find area of triangles
- solve application problems (navigation, angle of elevation, depression, surveying, etc.)

Attendance/Tardies:

Regular attendance is required. Absences should be for emergencies only. If a student misses more than six MWF classes or four TTh classes, he/she could be withdrawn from the class. It is the student's responsibility to keep up with his/her absences and to obtain class notes and homework assignments for any days missed. Class begins promptly and students are expected to be prepared. <u>If a student arrives late to class, the student is to sit at the closest seat to the door, so as not to interrupt class.</u>

Grading Procedure:

20% There will be an **in-class quiz** or a **graded homework assignment** almost every week except for the weeks of tests. Each quiz and homework grade will be worth the same. <u>The lowest two grades will be dropped.</u>

54% There will be three **tests** (@18% each). Each test will be announced at least one week in advance.

26% There will be one cumulative **Final Exam**. The date and time of the Final Exam is given at the beginning of this syllabus. Plans must be made so as not to interfere with the Final Exam.

100% Total

Tentative Schedule:

Chapters 1 and 6	
Test #1	
Chapters 2 and 3	
Test #2	
Chapters 4, 5, and 7	
Test #3	
Cumulative Final Exam	

Grading Scale:

A	90% - 100%
B+	85% - 89%
B	80% - 84%
C+	75% - 79%
C	70% - 74%
D+	65% - 69%
D	60% - 64%
F	Below 60

Important Remarks:

The in-class quizzes and graded homework assignments are given regularly to indicate each student's understanding of the current material. Thus, **make-up quizzes will not be given**. If prior notice is given to the instructor, there is a possibility that the quiz can be taken outside of class.

Make-up tests will be given for emergencies only. Oversleeping, completing a project in another class, and forgetting your calculator are examples that are not emergencies. For emergencies, it is extremely important that you **contact me by phone or email as soon as an emergency occurs.** For instance, the same day the emergency occurs! If I am not in my office, leave a message so we can schedule a make-up exam before our next class. **Otherwise, an unexcused absence from a test results in a zero being recorded for that examination**.

The importance of this policy is so that you **do not fall behind**. Read the textbook. Do the homework problems regularly and thoroughly. As is the case in math classes, homework is the key to success. As you study make a list of questions that need to be clarified. Use the opportunity to ask questions at the beginning of class.

If you do fall behind, please seek help! I am available during my office hours or by appointment. My office hours exist solely to help you in this class. Also, tutors in mathematics are available in the afternoons/evenings at the University Tutoring Center located LSF107. These tutors are available to you free of charge.

Important Dates:

February 26	Midterm and last day to withdraw from a course without academic penalty
April 23	Last day of class