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


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 If a student misses more than six MWF classes or four TTh classes, he/she could be withdrawn from the class.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. 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.
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. The lowest two grades will be dropped.

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.

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100% Total

Tentative Schedule:

<table>
<thead>
<tr>
<th>Chapters 1 and 6</th>
<th>Test #1</th>
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<tbody>
<tr>
<td>Test #2</td>
<td>Chapters 2 and 3</td>
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<tr>
<td>Test #3</td>
<td>Chapters 4, 5, and 7</td>
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<tr>
<td>Cumulative Final Exam</td>
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Grading Scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90% - 100%</td>
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<tr>
<td>B+</td>
<td>85% - 89%</td>
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<tr>
<td>B</td>
<td>80% - 84%</td>
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<tr>
<td>C+</td>
<td>75% - 79%</td>
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<tr>
<td>C</td>
<td>70% - 74%</td>
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<tr>
<td>D+</td>
<td>65% - 69%</td>
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<td>D</td>
<td>60% - 64%</td>
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<td>F</td>
<td>Below 60</td>
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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 |