MATH 1316 Syllabus
Eastfield College

Instructor Information
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Course Information
Course Title: Plane Trigonometry
Course Number: MATH 1316
Section Number: 42490
Semester/Year: Fall 2019 - Wintermester
Credit Hours: 3
Class Meeting Time/Location: Online
Certification Date: December 18, 2020
Last Day to Withdraw: January 6, 2020

Course Prerequisites
MATH 1314 or equivalent

Course Description
In depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates, and parametric equations may be included. (3 Lec.) Coordinating Board Academic Approval Number 2701015319.
Student Learning Outcomes

Upon successful completion of this course, students will:
1. Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.
2. Graph trigonometric functions and their transformations.
3. Prove trigonometric identities.
4. Solve trigonometric equations.
5. Solve right and oblique triangles.
6. Use the concepts of trigonometry to solve applications.

Texas Core Objectives

The College defines essential knowledge and skills that students need to develop during their college experience. These general education competencies parallel the Texas Core Objectives for Student Learning. In this course, the activities you engage in will give you the opportunity to practice two or more of the following core competencies:

1. **Critical Thinking Skills** - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. **Communication Skills** - to include effective development, interpretation, and expression of ideas through written, oral, and visual communication
3. **Empirical and Quantitative Skills** - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
4. **Teamwork** - to include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal
5. **Personal Responsibility** - to include the ability to connect choices, actions, and consequences to ethical decision-making
6. **Social Responsibility** - to include intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities

Required Course Materials

- MyMathLab access is required. ISBN 9780135374214 Ebook included.
  - My Math Lab Course ID: giraud33796
- At least a scientific calculator is required for this course, HOWEVER, it is **highly recommended** to use a graphing calculator (TI-83 or TI-84)

Note: A student of this institution is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

**Graded Work**

The tables below provide a summary of the graded work in this course and an explanation of how your final course grade will be calculated.

**Summary of Graded Work**

<table>
<thead>
<tr>
<th>Assignments</th>
<th>Weight</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>15%</td>
<td>15%</td>
</tr>
<tr>
<td>Quizzes (Reviews)</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>Online Tests</td>
<td>4 @ 7.5% each</td>
<td>30%</td>
</tr>
<tr>
<td>MidTerm Exam</td>
<td>25%</td>
<td>25%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
<td>25%</td>
</tr>
</tbody>
</table>

**TOTAL: 100%**

**Final Grade**

<table>
<thead>
<tr>
<th>Percentages</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>89.5 - 100%</td>
<td>A</td>
</tr>
<tr>
<td>79.5 - 89.4%</td>
<td>B</td>
</tr>
<tr>
<td>69.5 – 79.4%</td>
<td>C</td>
</tr>
<tr>
<td>59.5 – 69.4</td>
<td>D</td>
</tr>
<tr>
<td>0-59.4%</td>
<td>F</td>
</tr>
</tbody>
</table>

**Description of Graded Work**

1. All homework, quizzes and online tests will be submitted through MyMathLab (MML)
2. You are required to take two proctored exams (the midterm and the final) administered on campus at the EFC Testing Center (or other testing facility if arranged in advance).
   a. If you need to take the midterm or the final exam at a different testing facility other than Eastfield College, you need to notify me by
December 20, 2019. You will need to send me an email stating which testing facility you will be taking your exam and the email address of the director of the testing facility. Both exams are done on the computer, so I will need to send them the instructions, formula sheets, and passwords to the exam. If you DO NOT email me by December 20th, both exams must be taken at the Eastfield Testing Center. Please be aware that some testing facilities charge a $10- $30 fee for each exam taken at their facility. You are responsible for any fees.

3. Due to the fact that this is a WINTERMESTER class, all MML ASSIGNMENTS (HOMEWORKS, REVIEWS, ONLINE TESTS) have a FINAL SUBMISSION deadline of January 9, 2020 by 11:59 pm. The course pacing calendar provided in MML are SUGGESTED due dates to help you stay on task.
   a. You may work ahead as much as you want.

4. The reviews for each online test are considered your quizzes and count for 5% of your overall score.
   a. Each review covers two chapters as each online test covers those two chapters that you reviewed on.

5. Each online test covers two chapters and will account for a total of 30% of your overall score.
   a. You have a total of 4 online tests
   b. You will have two attempts for each online test and have 120 minutes for each attempt of each test.
   c. I will take the highest score of the two attempts (if you did both attempts)
   d. If you are satisfied with grade of the first attempt of that test, you do not have to do the other attempt.

6. The Midterm Exam will cover Chapters 1 – 4. This counts as 25% of your overall score. The midterm must be taken by January 10, 2020. (you can always take it before. Please see the testing center holiday hours)
   a. Please complete the midterm review to prepare for your midterm exam. This review counts as a quiz grade.
   b. No formulas will be allowed for the midterm.
   c. You will only have 1 attempt for the midterm exam.
   d. If the deadline of the midterm is missed, a grade of a zero will be placed in the gradebook.

7. The Final Exam is covers Chapters 5 – 7, and 9. This counts as 25% of your overall score. The final must be taken by January 10, 2020
   a. Please complete the final exam review to prepare for your final exam. This review counts as a quiz grade.
   b. A formula sheet will be provided for the final exam. Please see the tab labeled “Formulas” in MML for clarification.
   c. You will only have 1 attempt for the final exam.
d. If the deadline of the final exam is missed, a grade of a zero will be placed in the gradebook.

8. Formulas – some formulas need to be memorized for each proctored exam and some don’t. In MML, I have clearly defined what needs to be memorized for each exam under the tab labeled “Formulas.” I highly recommend in printing those sheets out while doing the homework to ensure understanding of what is expected to be known.

**Instructional Components:**

**Step 1:** Watch a video
- Video lecture introduces each section of each chapter
- Must be accessed before each homework assignment
- Taking notes while watching the video is highly recommended.

**Step 2:** Homework
- Consists of problems from each section
- Problem can be repeated until mastered - select “Similar Exercise” after each 4th incorrect attempt
- 70% mastery required to proceed to next topic

**Step 3:** Quizzes/Reviews
- Consists of problems from two chapters of homework problems.
- Must be accessed before each test
- Can be taken up to two times.
- In order to access the review, the student must have received 70% on each homework assignment that the review covers
- Midterm and final exam reviews are to be taken before taking those proctored exams

**Step 4:** Online Tests
- Assesses student understanding of two designated chapters
- Can be taken up to two times
- Only the highest score of the two attempts will be put into the gradebook

**Attendance and Your Final Grade**

Any student that has not registered on MyMathLab AND completed the orientation assignment by 7 pm on December 18, 2019 will NOT be certified as having attended and consequently may be dropped from the class. If a student is unable to complete a course (or courses) in which he/she is registered, it is the responsibility of the student to withdraw from the course by the appropriate date. (The date is published in the academic calendar each year and in each semester's class schedule). If a student does not withdraw, he/she will receive a performance grade, usually a grade of “F”.
Students who are absent from class for the observance of a religious holiday may take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the 15th day of the semester, the student notified the instructor(s) that the student would be absent for a religious holiday. Sec. 51.911 TX Educ. Code.

**Late Work Policy**

**Policy on Missed Assignments such as Homeworks, Quizzes and Online Tests.**
If the student misses any homework, quizzes or online tests by the final submission deadline of January 9, 2020 - 11:59 pm, a zero will be placed in the gradebook. No exceptions. A course pacing calendar is in MML. It has SUGGESTED DUE DATES to help you stay on task.

**Policy on Midterm and Final Examinations:**
The Midterm and Final Exam are administered on campus at the EFC Testing Center (or other testing facility if arranged in advance). These exams are computer based and you will need to log into ecampus to access them. Once you are inside the course, click on “Electronic Tests” to take the exam. A proctor will then be instructed to type in the password.

- The EFC Testing Center is located in Building C, Room 113. It is open from 8 a.m. – 9 p.m Monday through Thursday and 9 a.m. – 5 p.m. on Friday. No tests will be issued to students during the last 1.5 hour of operation. Take a picture ID and know your course name, number, section number (MATH 1316-42490) and which test you are taking (ex. Midterm or Final Exam). You may contact the EFC Testing Center at 972-860-7011. **Holiday hours are in effect. Campus is closed December 24th – January 1st.**
- If you need to take the midterm or the final exam at a different testing facility other than Eastfield College, you need to notify me by December 20, 2019. You will need to send me an email stating which testing facility you will be taking your exam and the email address of the director of the testing facility. Both exams are done on the computer, so I will need to send them the instructions, formula sheets, and passwords to the exam. If you DO NOT email me by December 20th, both exams must be taken at the Eastfield Testing Center. Please be aware that some testing facilities charge a $10- $30 fee for each exam taken at their facility. You are responsible for any fees.
- The Midterm Exam will cover Chapters 1 - 4 and must be taken by January 10, 2020
- The Final Exam will cover Chapters 5 – 7 and 9 and must be taken January 10, 2020
  - Formula sheets will be given for the final exam. Please see the “Formulas” tab in MML
- Only 1 attempt is allowed for each proctored exam.
If the student misses the proctored exam, a grade of a zero will be placed in the gradebook.

Standard of Conduct/Classroom Etiquette
No food, drinks or tobacco products are allowed in Eastfield College classrooms. However, if your class is in a non-lab classroom, your instructor may allow food or drink.

Additional Resources

Tutoring Services (https://www.eastfieldcollege.edu/services/academic-support/tutoring/pages/default.aspx) are provided for Mathematics and Developmental Mathematics in the Eastfield library, Building L, Room 200. Students are encouraged to take advantage of this service for additional help in their course work. Visit the link above or call 972-860-7174 for more information on tutors, hours of operation and policies.

Institutional Policies
Institutional Policies relating to this course can be accessed using the link below. These policies include information about tutoring, Disabilities Services, class drop and repeat options, Title IX, and more.

Eastfield Institutional Policies (http://www.eastfieldcollege.edu/syllabipolicies)

Course Content

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Section</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 1</td>
<td>1.1 – 1.5</td>
<td>Angles, Triangles, Trigonometric Functions, Reference Angles, Trigonometric Identities</td>
</tr>
<tr>
<td>Chapter 2</td>
<td>2.1 – 2.3</td>
<td>Right Triangle Trigonometry</td>
</tr>
<tr>
<td>Chapter 3</td>
<td>3.1 – 3.4</td>
<td>Radian Measure, Arc Length Area of a Circular Sector, Unit Circle, Linear and Angular Speed</td>
</tr>
<tr>
<td>Chapter 4</td>
<td>4.1- 4.3</td>
<td>Graphs of Trigonometric Functions</td>
</tr>
<tr>
<td>Chapter 5</td>
<td>5.1 – 5.4</td>
<td>Trigonometric Identities, Sum/Difference, Double Angle, Half Angle, Product-to-Sum and Sum-to-Product</td>
</tr>
<tr>
<td>Chapter 6</td>
<td>6.1 – 6.3</td>
<td>Inverse Trigonometric Functions, Solving Trigonometric Equations</td>
</tr>
</tbody>
</table>
### Chapter 7
7.1 – 7.4  
Law of Sines, Law of Cosines, Area of a Triangle

### Chapter 8
8.1 – 8.3 (Optional)  
Vectors

### Chapter 9
9.1 – 9.5  
Polar Coordinates, Polar Equations, Complex Numbers

**Syllabus Revision:**
The guideline in this syllabus may be changed, deleted, or amended any time by the instructor. The attached course outline is intended as an aid in helping you understand your responsibilities for the semester. It is possible that some changes in the course outline or class policies will be made during the semester. Any changes that are made to the class policies or course outline will be announced in

Revised 10/19