MATH 1316 Syllabus
Eastfield College

Instructor Information
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Office Hours: NA
Division Office and Phone: STEM Division, C-Building, Room 202 | 972-860-7297

Course Information
Course Title: Plane Trigonometry
Course Number: MATH 1316
Section Number: 40400
Semester/Year: Spring 2020 / 2nd 8-weeks
Credit Hours: 3
Class Meeting Time/Location: INET
Certification Date: April 3rd 2020
Last Day to Withdraw: May 4th 2020

My preferred method of contact is ahmadabdallah@dcccd.edu. Make sure your emails are appropriately addressed if you expect a response (course and section number in the subject line and your full name as a signature)
Please keep in mind that it is against the law (FERPA) for me to discuss grades with you via phone or email. See me in person if you need to discuss your personal academic progress or grades in this course. **Email is the best way to contact me. Your email will be answered within 24 hours, except on the weekends/holidays. Those emails will be answered Monday in the order they were received.**
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**

- *Trigonometry* by Ratti & McWaters, 1st Edition, Addison-Wesley, 2010. OPTIONAL, You DO NOT have to purchase the textbook as it is available to you online through MyMathLab.
- MyMathLab access is required. ISBN 9780135374214 Ebook included.
- 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)

**Your Course Name MML:** Spring 2020 Math-1316 Online
**Your Course ID MML:** abdallah58816

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>MML Homework</td>
<td>18%</td>
<td>18%</td>
</tr>
<tr>
<td>Quizzes (Reviews)</td>
<td>4%</td>
<td>4%</td>
</tr>
<tr>
<td>Tests</td>
<td>4 @ 7.5% each</td>
<td>30%</td>
</tr>
<tr>
<td>MidTerm Exam</td>
<td>20%</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
<td>25%</td>
</tr>
<tr>
<td>Core Artifact Assignment</td>
<td>3%</td>
<td>3%</td>
</tr>
</tbody>
</table>

**TOTAL: 100%**
Final Grade

<table>
<thead>
<tr>
<th>Percentages</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>90-100%</td>
<td>A</td>
</tr>
<tr>
<td>80-89%</td>
<td>B</td>
</tr>
<tr>
<td>70-79%</td>
<td>C</td>
</tr>
<tr>
<td>60-69%</td>
<td>D</td>
</tr>
<tr>
<td>0-59%</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. **Because of the unfortunate circumstances regarding Covid-19, both proctored exams will be taken using online proctoring services (ProctorU or RespondusMonitor) and will not be administered at Eastfield testing center.** If circumstances changed and campus opened before the due dates of these exams then I reserve the right to adjust this statement accordingly.

3. Each homework, quiz and online test has a specific due date that is highly enforced.
   a. Only the homework can be turned in late. However, there is a 10% penalty deduction for the homework problems turned in pass the specified deadline.
   b. The final submission deadline for all late homework is the day the final exam is due.
   c. You may work ahead as much as you want.

4. The reviews for each online test are considered your quizzes and count for 4% of your overall score.
   a. Each review covers two chapters as each online test covers those two chapters that you reviewed on.
   b. You have two attempts for each review.
      i. Both attempts are due on the date specified on the course pacing calendar.
   c. The reviews cannot be turned in late.

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.
      i. Both attempts are due on the date specified on the course pacing calendar.
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.
e. Each online test (the first and second attempt) has a specific deadline and
   CANNOT be turned in late. If the deadline of the online test is missed, a
   grade of a zero will be placed in the gradebook.

6. The Midterm Exam will cover Chapters 1 – 4. This counts as 20% of your overall
   score. The midterm must be taken by April 20, 2020
   a. Please complete the midterm review to prepare for your midterm exam. This
      review counts as a quiz grade.
   b. You will only have 1 attempt for the midterm exam.
   c. The midterm exam must be taken by the specified deadline. 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 May 13, 2020
   a. Please complete the final exam review to prepare for your final exam. This
      review counts as a quiz grade.
   b. You will only have 1 attempt for the final exam.
   c. The final exam must be taken by the specified deadline. 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
- Can be accessed after due date
- 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
- Can be accessed after due date
- Late problems penalized 10%

**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
- Late submission not allowed
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
- Late submission not allowed

**Core Artifact Assignment:**
This assignment will be emailed to you and must be fully completed and sent back to receive points. The assignment is designed to test your essential knowledge and skills (Texas Core Objectives)

**Attendance and Your Final Grade**
NA for Online courses

**Late Work Policy**
Late work for HW assignments and exams will be accepted until the last day of this course with a 10% penalty deduction after the due date.

**Standard of Conduct/Classroom Etiquette**
NA for online course

**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.

**Other Course Policies**

**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 know 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 via email.

**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>
<tr>
<td>Chapter 7</td>
<td>7.1 – 7.4</td>
<td>Law of Sines, Law of Cosines, Area of a Triangle</td>
</tr>
<tr>
<td><strong>Chapter 8</strong></td>
<td>8.1 – 8.3 (Optional)</td>
<td>Vectors</td>
</tr>
<tr>
<td>Chapter 9</td>
<td>9.1 – 9.5</td>
<td>Polar Coordinates, Polar Equations, Complex Numbers</td>
</tr>
</tbody>
</table>