STEM Division

MATH 1316-43440/93409, 3 Credit Hours
Plane Trigonometry
Spring 2015 – Flex Term

Classes are ONLINE

Instructor:
Christine Giraud

Contact Information:
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Office Hours: By appointment only
Phone: 972-860-7376
Email Address: christinegiraud@dcccd.edu

Prerequisites:
MATH 1314 or MATH 1414 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.)

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.

Core Objectives:
MATH 1316 develops the following Core Objectives:

1. Critical Thinking - to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.

2. Communication - to include effective development, interpretation and expression of ideas through written and visual communication.
3. **Empirical and Quantitative Skills** - to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.

**Core Objective Development Statements:** MATH 1316 develops **Critical Thinking, Communication, and Empirical and Quantitative Skills** by requiring students to solve and analyze applications of trig functions and their graphs.

**Textbook and Other Course Materials:**
  - You DO NOT have to purchase the textbook as it is available to you online through MyMathLab
- My Math Lab is REQUIRED for this course. It is NOT optional.
  - My Math Lab - Microsoft Windows 7 and 8 users should use one of the following browsers with MyMathLab courses-- Chrome, Firefox or Internet Explorer 10 and 9. For other system requirements go to [http://www.pearsonmylabandmastering.com/northamerica/system-requirements/](http://www.pearsonmylabandmastering.com/northamerica/system-requirements/)
  - **My Math Lab Course ID:** giraud78398
  - **Graphing calculator (TI-83 or TI-84)**

**Grading Policy:**

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>15%</td>
</tr>
<tr>
<td>Quizzes (Reviews)</td>
<td>5%</td>
</tr>
<tr>
<td>4 Online Tests</td>
<td>30%</td>
</tr>
<tr>
<td>Proctored Exams (Midterm &amp; Final Exam)</td>
<td>50% (25% each)</td>
</tr>
</tbody>
</table>

**Description of the course:**
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 April 1, 2015. 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 April 1st, both exams must be taken at the Eastfield Testing Center. Please be aware that some testing facilities charge a $10- $25 fee for each exam taken at their facility. You are responsible for any fees.
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. 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.
   e. Each online test 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 25% of your overall score. The midterm must be taken by April 17, 2015.
   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 12, 2015.
   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

**Grading Rationale:**

<table>
<thead>
<tr>
<th>Overall Score</th>
<th>Letter Grade</th>
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<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>59.4% and Below</td>
<td>F</td>
</tr>
</tbody>
</table>
Policy on Missed Assignments such as Homeworks and Quizzes: If the student misses a homework assignment, a 10% penalty deduction will be placed on only the homework problems turned in passed the deadline. If the student misses a Quiz assignment (aka the test reviews) a zero will be placed in the gradebook.

Policy on Missed Online Tests: NO MAKE-UP TESTS or RE-TESTS. Each test has a specific deadline that is highly enforced. If the student misses the test, a grade of a zero will be placed in the gradebook.

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 114. 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 hour of operation. Take a picture ID and know your course name, number, section number (MATH 1316-43400/93408) and which test you are taking (ex. Midterm or Final Exam). You may contact the EFC Testing Center at 972-860-7011.

- 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 April 1, 2015. 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 April 1st, both exams must be taken at the Eastfield Testing Center. Please be aware that some testing facilities charge a $10-$25 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 April 17, 2015
- The Final Exam will cover Chapters 5 – 7 and 9 and must be taken May 12, 2015
  - 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.

Attendance Policy:
Any student that has not registered on MyMathLab AND completed the orientation assignment by 8 pm on March 28, 2015 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.

Obtaining Final Course Grades Using eConnect:
Final grade reports are no longer mailed. Convenient access is available online at www.econnect.dcccd.edu. Use your student identification number when you log into eConnect, an online system developed by the DCCCD to provide you with timely information regarding your college record. Your grades will also be printed on your Students Advising Report, which is available in the Admissions Office.

Drop Date:
Last date to drop with a grade of “W” is May 1, 2015

Drop Policy:
To drop a class or withdraw from the college, students must follow the prescribed procedure. It is the student’s responsibility to drop or withdraw. Failure to do so will result in receiving a performance grade, usually grade of “F”. No drop or withdrawal requests are accepted by telephone. Students who drop a class or withdraw from the College before the semester deadline receive a “W” (Withdraw) in each class dropped. The deadline for receiving a “W” is indicated on the academic calendar and the current class schedule. If you are unable to complete this course, you must withdraw from it by May 1, 2015. For more information, contact the Admissions/Registrar’s Office at 972-860-7167 (Room C 119).

STOP BEFORE YOU DROP
Six Drop Rule: For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career, unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information on the 6 drop rule, you may access: https://www1.dcccd.edu/6drop.

Financial Aid:
If you are receiving Financial Aid grants or loans, you must begin attendance in all classes to be certified as attending class. In a Distance Learning Class, you must show participation in the class prior to the certification date by either e-mailing your instructor or logging on to eCampus. Do not drop or stop attending any class without consulting the Financial Aid Office. Changes in your enrollment level and failing grades may require that you repay financial aid funds. Failure to contact the instructor will result in your name being submitted to the Financial Aid Office as a “non-attendee”. Student who fail to attend or participate after the drop date are also subject to this policy.

Repeating This Course:
Effective for Fall Semester 2005, the Dallas County Community Colleges will charge additional tuition to students registering the third or subsequent time for a course. All third and subsequent attempts of the majority of credit and Continuing Education/Workforce Training courses will result in additional tuition to be charged. Developmental Studies and some other courses will not be charged a higher tuition rate. Third attempts include courses taken at any of the Dallas County Community Colleges since the Fall 2002 Semester. See Third Attempt to Enroll in a Course at: http://www.dcccd.edu/thirdcourseattempt/

Students With Learning, Mental and Physical Disibilities:
Students requesting accommodation due to the presence of a disability must identify themselves in a timely fashion and demonstrate/document the need for accommodations through the Disability Services Office (DSO). For information regarding the rights and responsibilities of students with disabilities, contact DSO at (972) 860-8348 voice/TDD or email efcdso@dcccd.edu.

Student Email:
Legal privacy issues prevent your instructor from discussing your work or your grades on commercial e-mail accounts. If you wish to send your papers as attachments to an e-mail (and the instructor permits it), or if you have a question about your grade, you must open a student e-mail account. You may set up your account by going to http://www.dcccd.edu/netmail/home.html. The account is free.

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 for food or drink.
CODE OF STUDENT CONDUCT: Web site address:  http://www1.dcccd.edu/cat0506/ss/code.cfm

Responsibility
Each student shall be charged with notice and knowledge of the contents and provisions of the District’s policies, procedures, and regulations concerning student conduct. All students shall obey the law, show respect for property constituted authority, and observe correct standards of conduct. In addition to activities prohibited by law, the following types of behavior shall be prohibited.

Scholastic dishonesty shall constitute a violation of these rules and regulations and is punishable as prescribed by college policies. Scholastic dishonesty shall include, but not limited to, cheating on a test, plagiarism, and collusion.

“Cheating on a test” shall include:

- Copying from another student’s test paper
- Using test materials not authorized by the person administering the test.
- All forms of academic dishonesty, including cheating, fabrication, facilitating academic dishonesty, plagiarism, and collusion.
- Collaborating with or seeking aid from another student during a test without permission from the test administrator.
- Knowingly using, buying, selling, stealing, or soliciting, in whole or in part, the contents of an unadministered test.
- The unauthorized transporting or removal, in whole or in part, of the contents of the unadministered test.
- Substituting for another student, or permitting another student to substitute for one’s self, to take a test.
- Bribing another person to obtain an unadministered test or information about an unadministered test.

“Plagiarism” shall be defined as the appropriating, buying, receiving as a gift, or obtaining by any means another’s work and the unacknowledged submission or incorporation of it in one’s own written work.

“Collusion” shall be defined as the unauthorized collaboration with another person in preparing written work for fulfillment of course requirements.

Students should be aware of disciplinary actions for all forms of academic dishonesty, including cheating, fabrication, facilitating academic dishonesty, plagiarism, and collusion. Your College Catalog and the DCCCD Catalog contain the entire Student Code of Conduct. In this course, you will receive a grade of “0” on that particular assignment or test if you are guilty of cheating on assignments, tests, or plagiarism. Please do not put yourself in a situation that would result in such action, Academic dishonesty is a serious offense in college.

Campus Police:
In addition to providing general law enforcement on campus, the campus police respond to all emergencies. In any emergency situation, you can get immediate help by any of the following methods:

- call 911 on any campus extension
- use any red phone in the hallways, or any "blue light" call box in the parking lots
- call 972-860-4290 from any off campus extension

Sexual Harassment:
Eastfield College has a zero tolerance policy on sexual harassment. All students shall report complaints of sexual harassment informally to the college Human Resources Director or formally to the Vice Chancellor of Educational Affairs.

DCCCD Emergency Operation Procedures:
Visit http://video.dcccd.edu/rtv/DO/emergency_dcccd.wmv
Emergency & Inclement Weather Procedures:
In case of emergency (which may include power or air conditioning outages, fires, etc.) or inclement weather conditions, Eastfield students should listen to KEOM-FM Radio Station (88.5) as the primary media source. In partnership with the Mesquite Independent School District, Eastfield College Administration will notify KEOM immediately after a decision is made to cancel classes on any given day of inclement weather or for emergency purposes. Students may also monitor other local radio and television stations. The earliest an announcement may be broadcast on KEOM Radio is 6 a.m. Students may also refer to the Eastfield College web page www.eastfieldcollege.com for the Inclement Weather announcement under News/Features.

Family Educational Right and Privacy Act of 1974 (FERPA):
In compliance with the Family Educational Rights and Privacy Act of 1974 (FERPA), the College may release information classified as “directory information” to the general public without the written consent of the student. Directory information includes: (1) student name, (2) student address, (3) telephone numbers, (4) date and place of birth, (5) weight and height of members of athletic teams, (6) participation in officially recognized activities and sports, (7) dates of attendance, (8) educational institution most recently attended, and (9) other similar information, including major field of study and degrees and awards received. Students may protect their directory information at any time during the academic year. If no request is filed, directory information is released upon written inquiry. No telephone inquiries are acknowledged. No transcript or academic record is released without written consent from the student, except as specified by law.

ADDITIONAL RESOURCES:
The Math Spot (http://www.eastfieldcollege.edu/as/Mathspot/index.asp) provides tutoring in Mathematics and Developmental Mathematics. Students are encouraged to take advantage of this service for additional help in their course work. The Math Spot is located in room C-201, and the phone number is 972-860-7062. Visit the link above for more information on tutors, hours of operation and policies.

Course Outline:

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<thead>
<tr>
<th>Chapter</th>
<th>Sections</th>
<th>Topics</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>Chapter 8</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>
**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 in class.

Revised 05/12/2014