PLANE TRIGONOMETRY
MATH.1316. 63202
SPRING 2015
1/20/15 – 3/19/15
MyMathLab Course ID: smith41314

Professor: Jackson Smith
Email: jacksonsmith@dcccd.edu
Office Hours: As an adjunct faculty member, I do not have an office or hold extended office hours. You can contact me outside class time by email or leave a message with the division office. If you would like to meet with me privately, talk with me before or after class to arrange a time.
Meeting Days & Time: Tu/Th 11:00 am – 1:50 pm
Room Number: W-276
Credit Hours: 3 semester hours

Division: Business, Computer Science and Mathematics
Office Hours: M – R 7:30 am – 6:00 pm, F- 7:30 am – 5:00 pm
Office Phone: 214-860-8645
Office Number: W210

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.

Course Pre-requisites: MATH 1314 or equivalent.

Course Materials/Supplies Needed
MYMATHLAB ACCESS for TRIGONOMETRY: A UNIT CIRCLE APPROACH, by Sullivan, 9th edition (ISBN# 9780321755995). MyMathLab contains a complete online textbook. If you have regular access to a high speed internet connection, the paper textbook is not required.

GRAPHING CALCULATOR. Recommended calculators are TI-84 Plus, TI-83 Plus, or TI-83. Cell phone calculators or calculators with CAS are NOT permitted on exams.

Core Objectives:
The objective of the mathematics component of the core curriculum is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solution of real-world problems.

1. To apply arithmetic, algebraic, geometric, higher-order thinking, and statistical methods to modeling and solving real-world situations.
2. To represent and evaluate basic mathematical information verbally, numerically, graphically, and symbolically.
3. To expand mathematical reasoning skills and formal logic to develop convincing mathematical arguments.
4. To use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results.
5. To interpret mathematical models such as formulas, graphs, tables and schematics, and draw inferences from them.
6. To recognize the limitations of mathematical and statistical models.
7. To develop the view that mathematics is an evolving discipline, interrelated with human culture, and understand its connections to other disciplines.

**Student Learning Outcomes**
Upon successful completion of this course you should be able to:
1. Solve Right Triangles
2. Graph (sketch) Trigonometric Functions
3. Solve Trigonometric Equations

**Course Outline:**
Chapter 1: Graphs and Functions
Chapter 2: Trigonometric Functions
Chapter 3: Analytic Trigonometry
Chapter 4: Applications of Trigonometric Functions

**Instructor Attendance Policy:**
Students are expected to attend all classes. Students have the responsibility to attend class and to consult with the instructor when an absence occurs. If for some reason you must leave class early, you should inform the instructor prior to the start of class of your reason for leaving early.

*Students must begin attendance in all classes of enrollment. No exceptions. Financial Aid will not be granted to students who have been certified as not attending, by the certification date. For this lecture course, your physical participation in class, on or before the certification date will allow you to receive credit for FA purposes. For certification dates, check with the division or FAO for further information. Students, who are not certified as beginning class, are responsible for any payments due as a result of non-certification, to include the dropping of courses.*

**Evaluation Procedures:**
There are homework assignments from each textbook section. You must complete all assignments on line, using MyMathLab. You can access MyMathLab from any computer with internet access. You can work any assignment and any individual question in any assignment as many times as you like until the deadline. Each time you re-answer a question, your score for that assignment will be updated. Your overall homework score will comprise 20% of your course grade.

There are three chapter exams and a comprehensive final exam. All exams will be done on MyMathLab. The average of the three exams will comprise 80% of your course grade. The final exam score will replace the lowest chapter exam score if replacement will raise your course grade.

**Grading Scale:**
Numerical course grade will be calculated as 0.2 x homework average + 0.8 x exam average. Numerical course grade will be converted to a letter grade by

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90-100%</td>
</tr>
<tr>
<td>B</td>
<td>80-89%</td>
</tr>
<tr>
<td>C</td>
<td>70-79%</td>
</tr>
</tbody>
</table>
Late Work Policy:
The “Homework” section of MyMathLab shows a due date/time for each homework assignment. Please treat these dates as “deadlines” rather than “due dates”. To get maximum benefit from the homework, begin working on each assignment as soon as possible after we discuss the associated topic in class. Extensions to homework deadlines will be available only under extraordinary and unforeseeable circumstances.

Makeup Exam Policy:
Because the final exam score can replace the lowest chapter exam makeup exams will not normally be available.

The withdraw date for this class is February 28, 2015.

Academic Dishonesty:
Students that caught plagiarizing an assignment will be subject to an “F” in the course and possible expulsion from the college.

Academic honesty is expected, and integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog. More information is available at https://www1.dcccd.edu/catalog/ss/code.cfm.

Institution Policies: Please visit http://www.mountainviewcollege.edu/Academics/Documents/Institutional%20Policies.pdf for a complete list of institutional policies (Stop Before You Drop; Withdrawal Policy; Repeating a Course; Financial Aid; Academic Dishonesty; Americans with Disabilities Act Statement; Religious Holidays; and Campus Emergency Operation Plan and Contingency Plan.).

Course Calendar

January 20—Class begins
January 23—Deadline for Homework Assignment 0
January 25—Deadline for Homework Assignment 1
February 2—Deadline for chapter 2 Homework Assignments
February 3—Chapter 2 exam
February 19—Faculty/staff development day. Class will NOT meet.
February 23—Deadline for chapter 3 Homework Assignments
February 24—Chapter 3 exam
February 28—Last day to withdraw with grade of W
March 8 – 14—Spring Break
March 16—Deadline for chapter 4 Homework Assignments
March 17—Chapter 4 exam
March 19—Final exam

Homework deadlines and exam dates are subject to change under unanticipated circumstances.