Plane Trigonometry
MTH 133.002, MTH 133.004
Department of Mathematics and Statistics
Spring 2016

Professor: Dr. Jonathan Mitchell
Department: Mathematics and Statistics
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Phone: 936-468-1606
Office: Math 352
Office Hours: by appointment or
Class meeting time and place:
   MTH 133.002 MW 1:00 – 2:15PM in Math 216
   MTH 133.004 TR 11:00AM – 12:15PM in Math 216

Course description: The course revolves around the study of the six trigonometric functions and their relationships to one another, as well as their applications to other areas of mathematics and problems in the physical world. This course of study should assist the student in making the transition from manipulative skills to an understanding of mathematical concepts. Our study will include radian measure of angles, the trigonometric functions, inverse trigonometric functions, graphs of trigonometric functions, trigonometric identities, trigonometric equations, solution of triangles, vectors in the plane, complex numbers, and a polar coordinate system for the plane.

Text and Materials:
   • Trigonometry by Mark Dugopolski; published by Pearson: Addison-Wesley, 4th edition
   • For exams, students may also use a non-programmable, non-graphing calculator with no permanent memory.

Course Requirements:
   • Three in-class exams
   • A comprehensive Final Exam (lasting 2 hours on Wednesday, May 11, 1:00 – 3:00 PM)
   • Assessment will include online HW via MyMathLab
     MTH 133.002 Course ID: mitchell68487
     MTH 133.004 Course ID: mitchell51816
   • Class attendance and participation: Students are expected to attend all class meetings, arrive on time (early), and engage in discussion with appropriate questions/statements.

Communication: Check your university email daily, as you may be sent reminders, assignments, and announcements. You may not ask me about your grade after April 29.
Grading Policy:
Grades will be based on the following percentages:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW Average</td>
<td>15%</td>
</tr>
<tr>
<td>Exam 1</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 2</td>
<td>20%</td>
</tr>
<tr>
<td>Exam 3</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>25%</td>
</tr>
</tbody>
</table>

There are no make-ups for missed exams, so make every effort to be at class on exam day. If you experience an emergency on exam day, then you may replace the earned 0 with whatever you earn on the comprehensive 2-hour final exam (this can happen only once). Department policy requires that you bring and be recognizable from either your SFASU Student ID or another valid photo ID before you are permitted to take each exam. There will be no extra credit (other than, perhaps, bonus problems on the exams).

Course outline:  
Approximate time spent

<table>
<thead>
<tr>
<th>Topic</th>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>Angles and the Trig Functions</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Graphs of the Trig Functions</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Inverse Trig. Functions and Solving Equations</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Identities</td>
<td>3 weeks</td>
</tr>
<tr>
<td>Solving Triangles</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Vectors, Complex Numbers, Polar Coordinates</td>
<td>3 weeks</td>
</tr>
</tbody>
</table>

Attendance Policy:

- Attendance is expected and roll will be checked every day. Leaving class early without notifying the professor in advance will result in your being counted absent for the class session.
- DO NOT use your cell phone in class. Phones should be set to silent mode and put away during class time. I will confiscate your cell phone for the duration of the class period if I see you use it during class. You may NOT use your cell phone as a clock or calculator on exams.
- Students who miss no more than 3 class days may receive special consideration in determining their grade.
- Department policy requires that you bring and be recognizable from either your SFASU Student ID or another valid photo ID before you can take each exam.

AARC: The Academic Assistance and Resource Center (AARC) located on the first floor of the Steen Library offers several types of academic assistance. All services are FREE. See the AARC web pages for more information https://library.sfasu.edu/aarc/

Academic Integrity (A-9.1)
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.
Definition of Academic Dishonesty
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp

Withheld Grades Semester Grades Policy (A-54)
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.

Students with Disabilities
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.

Acceptable Student Behavior
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1 http://www.sfasu.edu/policies/student_conduct_code.asp ). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic,
classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.