MAT 182: Plane Trigonometry – Scottsdale Community College

(Instructor reserves the right to make changes on this syllabus as needed)

SLN: 7136 Spring 2008 **Class time:** TTh 5:30 – 6:45 AM

Instructor: Patricia Dueck **Office Hours:** MW 3:30 – 5:00 PM
Office: CM 429 TTh 7:00 PM – 8:00 PM
And by appointment

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Text: *Functions Modeling Change: A Preparation for Calculus, third edition,* Connally, Hughes-Hallett, Gleason, et al. Wiley Publishers 2007. A Student *Study Guide* and *Solution Manual* is available online from www.wiley.com

Prerequisites: Students entering MAT 182 are expected to have completed MAT 150 or its equivalent with a grade of A, B or C.

Cell Phones: Upon entering class all cell phones and other objects of tech communication need to be turned off. If there is a true emergency call you are expecting, let the instructor know before class. You will forfeit your attendance point if your cell phone goes off during class.

Attendance is expected. You are to be in class every day it is scheduled. You *may* be dropped after three absences. You are expected to be in class on time. You are expected to stay the full length of class once you come to class. If you have a legitimate need to leave class early, please notify your instructor before class starts. If you stop attending class after the last withdraw date of April 21, 2008 you will not be withdrawn but will receive a grade of F.

Graphing Calculator: A graphing calculator is required for this course. The suggested calculator is the TI-83 or TI-84. Please bring the calculator to class daily. Renting a calculator is possible through Student Life (north end of the Student Center building). The cost is $10 per semester. Calculators with QWERTY keyboards or those which do symbolic algebra such at the TI-92s or TI-89s ***cannot*** be used during an exam. **Internet and e-mail** access is required for each student.

Exams: There will be 3 midterm exams given during the semester. These exams will involve a mix of mechanical skills and conceptual reasoning. The best possible preparation for the exams is regular attendance and completion of assigned homework. **Your calculator program memory may be randomly viewed during any exam and will be cleared if anything suspicious is written therein.** There are ***no make-up exams*** unless you have a valid excuse accompanied with documentation or you have spoken with the instructor before the day of the exam. You have ***one week*** to complete the make-up exam and you will receive a 10% reduction in points regardless of the excuse. You may only make up one exam during the semester. The second missed exam will receive a grade of 0 (zero). Exams are never curved.

Homework, Quizzes & Projects: Homework will be assigned daily. Students may work together on homework, but each individual student should complete and write up their own work as much as possible. There will be daily homework quizzes given. They will be worth 5 points every day. You will be given a problem number from your homework to complete using *only* your homework and it will be graded for correctness. Two of the lowest homework quizzes will be dropped at the end of the semester. There also may be group quizzes or different kinds of individual quizzes at other times in the

semester. ***No make-up quizzes are allowed*** . Projects are assigned in class at various times and are completed in groups. Review Projects are student compilations of what to review for an exam. Each student will be required to submit their own review sheet the day before the review takes place. Grades for these projects will be based on completeness, accuracy, thoughtfulness and neatness. There are no review sheets given in class so this is for your own benefit as well as a graded assignment.

Tutor Center: The Math/Science Tutor Center in CM 441A will be open M-Th 8:00 PM - 2:30 PM, M-Th 4:30 PM - 7 PM. Come for help before it is too late, and several days before an exam day. Office hours are also held in order for the instructor to provide individual help outside of class.

Final Exam: The final exam will be given in your regular classroom, CM 467 on Tuesday, May 6, 6:00 – 7:50 PM. There will be no make-ups given for the final, and no finals will be rescheduled for personal reasons, including nonrefundable airplane tickets.

Assigning of Grades: Your grade is NOT a commodity; it has not been purchased with your tuition. You have the right to be graded fairly, but you do NOT have the right to any specific grade. Your grade is not a reflection of you as a person. Your grade is not a measurement of effort. Your grade is an evaluation of PERFORMANCE. This means it is dependent upon how well you demonstrate your comprehension of the subject through application and completion of the items listed above and below in this syllabus.

Percent Allocation		**Grades**
3 Midterm exams:	**60%**	**A: 90% - 100%**
Final exam:	**20%**	**B: 80% - 89%**
Homework Quizzes/Projects:	**20%**	**C: 70% - 79%**
		D: 60% - 69%

Homework Quiz Point Allocation	
Quiz Correctness:	**+4**
Attendance:	**+1**

Exam	**Dates**	**Topics on exam**
Exam 1	**Tuesday February 26, 2008**	**Chapter 6**
Exam 2	**Tuesday April 1, 2008**	**Chapter 7**
Exam 3	**Thursday April 24, 2008**	**Chapter 10**
Final Exam	**Tuesday May 6, 2008 6:00 – 7:50 PM**	**Cumulative**

Official Course Description: MCCCD Approval: 04/22/97

MAT182 19976-99999 LEC 3 Credit(s) 3 Period(s)

Plane Trigonometry

A study of measures of angles, properties of graphs of trigonometric functions, fundamental identities, addition and half-angle formulas, inverse trigonometric functions, solutions of trigonometric equations, complex numbers and properties of triangle solution. May receive credit for only one of the following: MAT182 or MAT187. Prerequisites: Grade of "C" or better in MAT150, or MAT151, or MAT152, or equivalent, or concurrent registration in MAT150, or MAT151, MAT152, or satisfactory score on District placement exam.

MCCCD Official Course Competencies:

MAT182 19976-99999 Plane Trigonometry

1. Identify a trigonometric function. (I)
2. Use the definitions and properties of trigonometric functions to solve problems. (I)
3. Find the length of an arc. (II)
4. Determine the area of a sector. (II)
5. Find linear and angular velocity. (II)
6. Determine the graph and period of a trigonometric function. (III)
7. Evaluate inverse trigonometric functions. (IV)
8. Verify trigonometric identities. (V)
9. Solve trigonometric equations. (VI)
10. Use trigonometric formulas to solve application problems. (VII)
11. Find nth roots of compex numbers. (VIII)

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