

MAT 230: Calculus and Analytical Geometry 2 – Scottsdale Community College

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

SLN: 7148 Spring 2008

Instructor: Patricia Dueck

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Class time: MW 7:15 – 9:40 PM

Office Hours: MW 3:30 – 5:00 PM

TTh 7:00 – 8:00 PM

And by appointment

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Text: *Single Variable Calculus, 4th Ed.*, Hughes-Hallett, Gleason et al.

Student's Solution Manual [optional] – contains complete solutions, not just answers, to odd-numbered problems

Prerequisites: Students entering MAT 230 are expected to have completed MAT 220 or its equivalent with a grade of A, B or C.

Cell Phones and Etc.: 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 or any instant messaging is taking place.

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 If you stop attending class after the last withdraw date of April 21, 2008 you will not be withdrawn but will receive a grade of F.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-84 or TI-83+. 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. **Internet and e-mail** access is required for each student.

Exams: There will be 4 midterm exams given during the session. 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. You may only make-up one exam per semester.

Gateway Exam: Students are allowed 3 attempts to earn a score of 80% or higher on the Gateway Exam. The instructor will choose what students must do before they are allowed to take successive attempts. Attempt one is taken in class along with exam 2. The Gateway Exam will be part of the final score of exam 2 but it will be graded again, separately, to determine if successive attempts are needed. Later attempts at the Gateway will not change the score of exam 2. However, a student must pass the

Gateway Exam at a score of 80% or higher to pass this course, regardless of other work done in the class.

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 7 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 am - 7:30 pm, Friday 8:00 am - 2 pm and Saturday 10 am - 2 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 454 on Monday May 5, 2008 from 8:00 – 9:50 PM. There will be no make-ups given for the final, and no finals will be rescheduled for personal reasons, including nonrefundable airplane tickets.

Student Expectations: Students are expected to be courteous, respectful and empathetic to peers and instructor. Be in class on time, be prepared for class, participate in class activities, follow assignment instructions, effectively complete assignments and turn them in by the appropriate due dates. You are also expected to maintain knowledge of your grade standing and contact the instructor if concerns arise. Students are also responsible for all college policies included in the college catalog and the student handbook.

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.

<u>Percent Allocation</u>		<u>Grades</u>
4 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:	+6
Attendance:	+1

<u>Exam</u>	<u>Dates</u>	<u>Topics on exam</u>
Exam #1:	Monday, February 11	Chapter 7
Exam #2:	Wednesday, March 5	Chapter 8 and Gateway Exam
Exam #3:	Monday, April 7	Chapter 9 – 10
Exam #4:	Monday, April 28	Chapter 11
Final Exam:	Monday, May 5, 2008 8:00 – 9:50 PM	Cumulative

MAT230 20072-99999

LEC 5 Credit(s) 5 Period(s)

Calculus with Analytic Geometry II

Techniques of integration for both proper and improper integrals with applications to the physical and social sciences, elements of analytic geometry, and the analysis of sequences and series. Prerequisites: Grade of "C" or better in MAT220 or MAT221 or equivalent.

Course Note: Student may receive credit for only one of the following: MAT230 or MAT231.

MCCCD Official Course Competencies:

MAT230 20072-99999 Calculus with Analytic Geometry II

1. Evaluate indefinite, definite and improper integrals using various algebraic, trigonometric and numerical techniques. (I, II)
2. Solve applied problems taken from the sciences using integration. (I, II)
3. Analyze curves in the plane described using parametric and polar equations. (III)
4. Define, classify, and analyze conic sections. (III)
5. Determine the convergence or divergence of sequences, series of constants, and power series. (IV, V)
6. Compute polynomial approximation and power series representation of elementary functions using derivatives and integrals. (V)
7. Compare alternate solution strategies, including technology. (I, II, III, IV, V)
8. Communicate process and results in written and verbal formats. (I, II, III, IV, V)
9. Justify and interpret solutions to application problems. (I, II, III, IV, V)

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