

MAT 261: Differential Equations – Scottsdale Community College
(Instructor reserves the right to make changes on this syllabus as needed)

SLN: 7152 Spring 2008

Instructor: Patricia Dueck

Office: CM 429

Class time: MW 5:20 – 7:00 PM

Office Hours: MW 3:30 – 5:00 PM

TTh 7:00 – 8:00 PM

And by appointment

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Text: *Differential Equations* Third Edition; Blanchard, Devaney, Hall; Brooks/Cole Publishers 2005.

Prerequisites: Students entering MAT 261 are expected to have completed MAT 230 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 If you stop attending class after the last withdraw date of April 21, 2008 you will not be withdrawn but will receive a grade of F.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-89 or TI-92. 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 3 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.

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. Projects will require the use of MathLab.

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 4:00 PM to 5:50 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>
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:	+6
Attendance:	+1

<u>Exam</u>	<u>Dates</u>	<u>Topics on exam</u>
Exam #1:	Wednesday, February 20, 2008	Chapter 1 and Modeling
Exam #2:	Monday, March 24, 2008	Chapter 2 and 3.1 – 3.4
Exam #3:	Monday, April 21, 2008	3.5 – 3.7, Chapter 4 – 5
Final Exam:	Monday May 5, 2008 4:00 PM – 5:50 PM	Cumulative

Official Course Description: MCCC CD Approval: 11/26/02

MAT261 20032-99999

LEC 4 Credit(s) 4 Period(s)

Differential Equations

Ordinary differential equations with applications including Laplace transforms with numerical methods.

Prerequisites: Grade of "C" or better in MAT230, or MAT231, or equivalent.

MCCC CD Official Course Competencies:

MAT261 20032-99999 Differential Equations

1. Solve ordinary differential equations, primarily of first or second order, using the following solution types: exact, implicit, series, or discrete approximations. (I-III)
2. Solve systems of ordinary linear differential equations of first or second order by differential operator, Laplace, or matrix methods. (IV)
3. Apply ordinary and systems of differential equations to solving applications. (V)

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