

MA214-003 Calculus IV: Ordinary Differential Equations Fall 2008

Instructor	P. D. Hislop
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Text:	W. E. Boyce and R. C. DiPrima: <i>Elementary Differential Equations and Boundary Value Problems</i> , Eighth Edition, Wiley 2005
Class Meetings:	MWF 11:00–11:50PM CB 239
Office Hours:	M 4-5; W 10-11; F 4-5 and by appointment
Weekly Problem Session:	to be scheduled

Grading Policy

Item	Date	Total Points
10 Quizzes at 10 points each	approximately weekly	100
First Hour Exam	10 October (target)	100
Second Hour Exam	24 November (target)	100
Final Exam	19 December 1:00PM–3:00PM	200
TOTAL		500

The minimum cut-offs for letter grades are: A 450-500; B 400-449; C 350-399; D 300-349; E below 300. If your final total of all scores is within one of these intervals, you are guaranteed to receive the corresponding letter grade or higher. Homework will be assigned and discussed in the weekly problem session. *Cheating in any form will not be tolerated.*

Course Content

MA214 is a basic course in *ordinary differential equations*. The basic problem is to determine an unknown function from an equation that involves only the derivatives of the function. Differential equations are used to model a wide variety of physical and biological phenomena, from atoms to animal populations. We'll study basic equations for which the unknown function-the solution-depends on one real variable only, like time or position. This is the meaning of the adjective *ordinary*. We will study first- and second-order ordinary differential equations extensively, especially linear differential equations. Approximate course material: Chapter 1, Chapter 2 (sections 2.1–2.6), Chapter 3, Chapter 6, Chapter 7 (sections 7.1–7.5).

Special Dates

1 September	Labor Day - No classes
20 October	Midterm of Fall 2008 Semester
4 November	Presidential Election Day - No Classes
7 November	Last day to drop with no W
26–29 November	Thanksgiving Holiday - Break-No Classes
12 December	Last Class
19 December	1-3 PM Final Exam