

University of Texas at Dallas
Course Syllabus
Fall 2005

Course Number: MATH 2420.001
Room: GR 3.302, MWF, 10:00 - 10:50
Course Title: Differential Equations with Applications
Textbook: Elementary Differential Equations and Boundary Value Problems, eighth edition, by William E. Boyce, Richard C. DiPrima
Instructor: Dr. Gregory Kramer
Office: EC 2.512
Hours: 11:30 - 11:50 a.m., MWF and by appointment
E-mail: gkramer@utdallas.edu

Exams: There will be three regular exams and a final exam. Each regular exam is worth 25% (the lowest regular exams grade will be dropped), and the final is worth 40% of your total grade. NO MAKE-UPS.

Quizzes: You must register for problem sessions 301 and 303 and attend it regularly. Quizzes will be given at the beginning of the problem section. The quiz will last 15 - 20 minutes. Of the 11 quizzes, only 10 top grades will be counted. If a quiz is missed, it will be the one that is dropped.

Grading Policy:

Quizzes	10.0 %
Best two exams	50.0 %
Final Fri. Dec. 2, 8:00 a.m.	<u>40.0 %</u>
	100.0 %

GRADES:

[96-100).....A+	[93-96).....A	[90-93).....A-
[86-90).....B+	[83-86).....B	[80-83).....B-
[76-80).....C+	[73-76).....C	[70-73).....C-
[66-70).....D+	[63-66).....D	[60-63).....D-
	Below 60F	

Mid-term grade will be assigned based on your grade in test 1 and quizzes taken.

G. Kramer

Course Outline for MATH 2420 (subject to change)

Chapter 1:

Sec 1.1

Sec 1.2

Sec 1.3

Chapter 2:

Sec 2.1

Sec 2.2

Sec 2.3

Sec 2.4

Sec 2.6 – 2.9

Chapter 3:

Sec 3.1 – 3.9

Chapter 4:

Sec 4.1

Sec 4.2

Sec 4.3 – 4.4

Chapter 5:

Sec 5.1 – 5.8

Chapter 6:

Sec 6.1 – 6.6

Chapter 7:

Sec 7.1 – 7.5

Chapter 8:

Sec 8.1

Sec 8.2

Sec 8.3

Sec 8.4

Chapter 11:

Sec 11.1

Sec 11.2

Math 2420.001—Fall 2003
Homework Assignments

Numbers refer to problems ending the indicated sections of Nagle, Saff and Snider, Fundamentals of Differential Equations, fifth Edition. Some assignments are for optional sections that might not be covered.

- | | | | |
|-----------|-------------------------------------|-----|------------|
| 1.1 | 1-16 (all) | 8.1 | 1-7 (all) |
| 1.2 | 1-21 odd, 23-28 | 8.2 | 1-15 (odd) |
| 1.3 | 1-7, 11-15 | 8.3 | 1-25 (odd) |
| | | 8.4 | 1-19 (odd) |
| 2.2 | 1-6 (all), 7-26 (odd) | | |
| 2.3 | 1-6 (all), 7, 9, 15, 17, 22, 25, 35 | 9.4 | 1-23 (odd) |
| 2.4 | 3-25 (odd), 29 | 9.5 | 1-25 (odd) |
| 2.5 | 1-6 (al), 7, 10, 13 | 9.6 | 1-13 (odd) |
| 2.6 | 1-8 (all), 9-31 (odd) | 9.7 | 1-21 (odd) |
| | | | |
| 3.1-3.21, | 3, 7, 9, 19, 25 | | |
| 3.4 | 1, 5, 7, 9, 19, 25 | | |
| | | | |
| 4.1 | 1-5 (all) | | |
| 4.2 | 1-17 (odd), 23-27 (all) | | |
| 4.3 | 1-17 (odd) | | |
| 4.4 | 1-6 (all), 9, 11 | | |
| 4.5 | 1-20 (odd) | | |
| 4.6 | 1-27 (odd) | | |
| 4.7 | 1-11 (odd) | | |
| 4.8 | 1-48 (each other odd) | | |
| 4.9 | 1-21 (odd) | | |
| 4.10 | 1-12 (odd) | | |
| | | | |
| 5.3 | 1-21 (odd), 25, 27, 31 | | |
| | | | |
| 6.1 | 1-23 (odd) | | |
| 6.2 | 1-23 (odd) | | |
| 6.3 | 1-37 (odd) | | |
| 6.4 | 1-10 (all) | | |
| | | | |
| 7.2 | 1-29 (odd) | | |
| 7.3 | 1-25 (odd) | | |
| 7.4 | 1-25 (odd) | | |
| 7.5 | 1-23 (odd) | | |
| 7.6 | 1-31 (odd) | | |
| 7.7 | 1-21 (odd) | | |
| 7.8 | 1-19 (odd) | | |
| 7.9 | 1-19 (odd) | | |