Math 308 Section 513 Spring 1994

Differential Equations

This course covers ordinary differential equations of first order; systems of linear differential equations of first order; linear differential equations of second order and series solutions; and solution of initial value problems via Laplace transforms.

We will cover most of Chapters 1–3 and 5–7 of the required textbook, *Elementary Differential Equations and Boundary Value Problems*, fifth edition, by William E. Boyce and Richard C. DiPrima (Wiley, 1992). The prerequisite for this course is Math 251 or Math 253.

The class meets Monday, Wednesday, and Friday in THOM 116 from 1:50 P.M.–2:40 P.M.

Instructor: Dr. Harold P. Boas

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Office Hours: 11:00 A.M.–12:00 NOON, Monday, Wednesday, and Friday; and by appointment

Exams: The three major exams will be given on Friday 18 February, Friday 25 March, and Monday 18 April. The comprehensive final exam is scheduled by the registrar for 3:30 P.M.–5:30 P.M., Tuesday 10 May.

Grading: The three major exams, homework/classwork, and the final exam will each count for 20% of the course grade. Final letter grades will be based on the standard scale: you need an average of 90 for an A, 80 for a B, 70 for a C, 60 for a D.

Course Outline

Week of:	*Monday*	*Wednesday*	*Friday*
Jan 17	1.1, 1.2	2.1	2.2
Jan 24	2.3, 2.4	2.5, 2.6	2.6, 2.7
Jan 31	3.1, 3.2	3.2, 3.3	3.3, 3.4
Feb 7	3.5	3.6	3.7
Feb 14	3.8, 3.9	review	**Exam 1**
Feb 21	7.1, 7.2	7.2, 7.3	7.3
Feb 28	7.4	7.5	7.5, 7.6
Mar 7	7.6, 7.7	7.7, 7.8	7.8, 7.9
Mar 14	spring break	spring break	spring break
Mar 21	7.9	review	**Exam 2**
Mar 28	5.1	5.2	5.3
Apr 4	5.3, 5.4	5.4, 5.5	5.6
Apr 11	5.6, 5.7	5.7	review
Apr 18	**Exam 3**	6.1	6.2
Apr 25	6.3, 6.4	6.4, 6.5	6.6
May 2	review	review	