

# MATH 221

# SYLLABUS

# SPRING 2007

**TEXT:** *Differential Equations—Computing and Modeling* by Edwards and Penney, 3rd Ed.

**DAILY WORK:** The exercises suggested below represent a minimal assignment. Some students may have to work additional exercises from the text to attain sufficient mastery of the material.

**PREREQUISITES:** Math 106, 107, and 208. You are expected to know differentiation and integration techniques and to be familiar with vector fields and parameterized curves.

**EXAMS:** Examinations may, in part, test whether the student can apply concepts learned in the course to new situations; thus, problems appearing on the exams may not be exactly like exercises in the text.

**FINAL EXAM:** All Math 221 students are required to take a comprehensive final examination covering all the topics listed on this syllabus, barring specific announcements to the contrary. Your instructor will provide you the date, time, and place for your section's final exam. You should arrange your schedule accordingly. Alternate final exams are given only for extreme circumstances, and even then only AFTER the regularly scheduled final exam.

WEEK	DATES	SECTIONS	EXERCISES
1	Jan 8-12	1.1, 1.2, 1.3	p.8: 2, 5, 7, 15, 20, 32, 37, 38, 47 p.16: 1, 4, 7, 15, 19, 21, 24, 26 p.26: 1, 2, 5, 11, 12, 14, 15, 19, 27
<b>No Class on Martin Luther King Day, January 15.</b>			
2	Jan 16-19	1.4, 1.5	p.41: 1, 3, 7, 10, 12, 19, 21, 26, 33, 38, 40, 49 p.54: 3, 6, 16, 17, 19, 20
<b>Friday, January 19, is the last day to withdraw from the course and not have it appear on your transcript.</b>			
3	Jan 22-26	1.5, 1.6 (exact and homogeneous only), 2.1	p.54: 22, 27, 33, 36, 37 p.71: 1, 3, 9, 13, 31-37 p.86: 1, 3, 9, 15
4	Jan 29 - Feb 2	2.2, 2.4	p.96: 1, 3, 6, 7, 9, 13, 19 p.119: 1, 3, 5, 6
REVIEW/CATCH UP			
5	Feb 5-9	EXAM 1 3.1	p.155: 1, 5, 10, 11, 13, 17, 19, 20-26, 29, 30, 33-41, 43, 44
6	Feb 12-16	3.2, 3.3	p.167: 1-5, 7, 9, 10, 12, 15, 17, 21, 23, 30, 38, 40, 41, 44 p.180: 1, 2, 7, 10, 13, 17, 21, 25, 27, 29, 33, 35, 39, 40
7	Feb 19-23	3.5	p.207: 1, 5, 7, 9, 12, 20, 22, 23, 29, 31, 34, 39, 53, 54, 58, 59, 61
8	Feb 26 - Mar 2	3.7, 4.1	p.228: 1, 3, 7, 9, 11, 13 p.251: 1, 2, 4, 11, 12, 13
<b>Friday, Mar 2, is the last day to change your grade option to or from "Pass/No Pass".</b>			
9	Mar 5-9	REVIEW/CATCH-UP Exam 2	
<b>Spring Semester break, Mar 11-18</b>			
10	Mar 19-23	5.1, 5.2	p.297: 1, 11, 12, 13, 21, 23, 25, 31, 33 p.312: 1, 3, 5, 8, 11

WEEK	DATES	SECTIONS	EXERCISES
11	Mar 26-30	6.1, 6.2	p.376: 1, 3, 5, 23-26 p.389: 1, 3, 7, 9, 11, 17, 19, 21
12	Apr 2-6	6.3, REVIEW/CATCH UP	p.403: 1, 2, 3,4
<b>Friday, April 6, is the last day to withdraw from the course and receive a grade of W</b>			
13	Apr 9-13	7.1, 7.2	p.444: 3, 5, 8, 11, 13, 16, 19, 23, 26, 29, 30 p.455: 1, 4, 5, 9, 12, 13, 16, 17, 20, 23, 24
15	Apr 23-28	REVIEW/CATCH UP EXAM 3	
14	Apr 16-20	7.3, 7.4	p. 465: 1, 3, 4, 6, 7, 8, 9, 11, 12, 15, 19, 27, 30, 31, 37 p.474: 1, 3, 5, 7, 9, 15, 17, 19, 22, 23, 26

**Department Grading Appeals Policy:** The Department of Mathematics and Statistics does not tolerate discrimination or harassment on the basis of race, gender, religion, or sexual orientation. If you believe you have been subject to such discrimination or harassment, in this or any other math course, please contact the department. If, for this or any other reason, you believe your grade was assigned incorrectly or capriciously, appeals may be made to (in order) the instructor, the department chair, the departmental grading appeals committee, the college grading appeals committee, and the university grading appeals committee.