MATH 221 Sec-005　　　　SYLLABUS　　　　SPRING 2008

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. It would be helpful if you have some familiarity with the basic facts of matrix theory and 2 dimensional linear systems, although this will be reviewed.

NOTES: The pace of the course, order of topics, number of exams, quizzes, and number of assignments and/or projects may be varied at the discretion of your instructor. Your grade in the course will be determined by your instructor, who will describe his/her grading policy in detail.

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. **Final Exam: Monday, May 5.**

GRADING SCALE:

Lab Assignments: 5 points each. Check my webpage for assignment and due dates.

Quizzes: Quiz every Friday, 10 points each.

Project: One project, 20 points.

Tests: 3 hour tests, 100 points each.

Final Exam: 200 points.

Attendance: Required, every 3 unexcused absences equal one half letter grade deduction.

Course Grade: Standard scale conversion from your numerical grand percentage to letter grades.

Class Web Page: http://www.math.unl.edu/∼bdeng1/Teaching/teaching.html

WEEK	DATES	SECTIONS	EXERCISES
1	Jan 14-18	1.1, 1.2	p.8: 1, 2, 5, 7, 15, 16, 20, 32,40
			p.16: 1, 4, 7, 15, 19, 24,33
No Class on Martin Luther King Day, January 21.			
2	Jan 22-25	1.3, 1.4	p.26: 1, 2, 5, 11, 12, 14, 15, 19,21
			p.41: 1, 3, 7, 10, 12, 16, 19, 21, 26, 40, 49,65
Tuesday, January 22, is the last day to withdraw from the course and not have it appear on your transcript.			
3	Jan 28- Feb 1	1.5, 1.6	p.54: 3, 6, 16, 17, 19, 22, 27, 29, 33, 35
			p.71: 1, 3, 6, 9, 13, 31-37, 43, 44
4	Feb 4-8	2.1, 2.2	p.86: 1, 3, 9, 11, 15
			p.96: 1, 3, 6, 7, 9, 19
5	Feb 11-15	2.3,2.4, REVIEW	p.106: 1, 2, 10, 21
			p.119: 1, 3, 5, 6
6	Feb 18-22	EXAM 1	
		3.1	p. 155: 1,5,10,11,13,17,19,20-26,29,30
			p.156: 33-41, 43, 44
7	Feb 25-29	3.2, 3.3	
		Annihilators (Optional)	p.167: 1-5, 7, 9, 10, 12, 15, 17, 21, 23, 38, 40, 41, 44
			p.180: 1, 2, 7, 10, 13, 17, 21, 25, 27, 29, 35, 52, 53
Friday, March 7, is the last day to change your grade option to or from "Pass/No Pass".			
8	Mar 3-7	3.5, 4.1	p.207: 31, 34, 39, 53, 54, 58, 59, 61, 62
			p.251: 1, 2, 4, 11, 12, 13
9	Mar 10-14	REVIEW/CATCH UP	
		Exam 2	
Spring Semester break, March 16-22.			
10	Mar 24-28	5.1, 5.2	p.297: 1, 11, 12, 13, 21, 23, 25, 31, 33
			p.312: 1, 3, 5, 8, 11
11	Mar 31- April 4	5.4, 6.1	p.341: 1, 2, 6
			p.376: 23-26
12	April 7-11	7.1, 7.2	p.444: 3, 5, 6, 11, 13, 16, 19, 23, 26, 29, 30
			p.455: 1, 4, 5, 9, 12, 17,20, 23,24
Friday, April 11, is the last day to withdraw from the course and receive a grade of W.			
13	April 14-18	7.3, 7.4	p.465: 1, 3, 4,6, 7,8, 9, 11, 12,15, 19
			p.474: 1,3,5,7,9,15,17,19,22,23,26
14	April 21-25	REVIEW/EXAM 3	
15	April 28-May 2	7.5, Applications, REVIEW	
			p 484: 1,2,3,6,9,11,13,16,19,

Department Grading Appeals Policy: The Department of Mathematics 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.