MATH 221 SYLLABUS FALL 2003

TEXT: ***Fundamentals of Differential Equations***, Nagle, Saff, Snider, Sixth ed., Addison-Wesley (2003).

DAILY WORK: The exercises suggested below represent a minimal assignment. Some students may have to work additional exercises from the text to master 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.

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

TESTS AND EXAMS: Tests and Exams will, in part, test whether you 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 a specific announcement to the contrary. The final exam will be in your regular classroom at the time listed in the UNL Schedule of Classes. You must arrange your personal and work schedules to allow you to take the exam at this scheduled time.

COMPUTER LAB: Some work in Math 221 may require the use of a computer algebra system. The Math Department Computer Lab (Bessey 105) is available for this purpose for all students enrolled in the course. The computer lab also gives students access to email and the World Wide Web. To obtain a computer lab account, students must attend a lab orientation session. Sign-up sheets will be posted on the door of Bessey 105.

WEEK	DATES	SECTIONS	EXERCISES
1	Aug 25-29	1.1	p.5: 1,5,6,8,11,13,16
		1.2	p.14: 1,4,7,9,12,16
		1.3	p.22: 1,3,5,7,8,11,13,16
		Monday, September 1, is Labor Day (No classes)	
2	Sept 2-5	1.4	p.28: 1,3,7,8,10
		2.1,2.2	p.46: 3,6,9,15,20,23
3	Sept 8-12	2.3	p.54: 1,4,6,7,9,11,14,17,20
		Existence-Uniqueness	p.14: 18, 23, 25; p.46: 29, 30
		3.1,3.2	p.98: 1,2,5,7,9,19,21,25,26
4	Sept 15-19	3.3	p.107: 1,4,5,7,8
		3.4	p.115: 1,5,7,8,13
5	Sept 22-26	3.5	p.122: 1,2,3,7,8
		4.1,4.2	p.167: 1,4,9,13,16,21,25, 27,29,31,39,42,44
6	Sept 29-Oct 3	Test I this week	
		4.3	p.177: 1,5,9,16,21,25,32,33
		Cauchy-Euler DEs	p.177: 40,42,43,44; p.332: 31

WEEK	DATES	SECTIONS	EXERCISES
7	**Oct 6-10**	**4.4**	**p.186: 3,5,6,9,12,15,27,30,33**
		4.5	**p.192: 1,3,6,9,12,14,17,20,25,26,31,35,37**
		4.6	**p.197: 1,5,9,11,15,22**
8	**Oct 13-17**	**6.1**	**p.324: 1,3,5,9,11,15,19,23**
		6.2	**p.331: 1,4,9,11,15,19,20**
Friday,October 17,is the last day to change your grade option to or from "Pass/No Pass".			
		October 20-21 is Fall Break (no classes)	
9	**Oct 22-24**	**6.3**	**p.337: 1,4,7,10,11,15,23,31,32**
10	**Oct 27-31**	**4.8,4.9**	**p.219: 1,5,7,9,10,16; p.227: 3,8,9,11**
		5.6	**p.291: 1,2,3,5,7**
11	**Nov 3-7**	**Test II this week**	
		5.2	**p.250: 2,4,7,10,20,23,25,31,35**
12	**Nov 10-14**	**5.4**	**p.274: 1,3,4,7,10,11,14,19,29**
		Systems	**See exercises on handouts**
Friday,November 14,is the last day to withdraw from the course and receive a grade of W.			
13	**Nov 17-21**	**7.1,7.2**	**p.359: 1,5,11,13,16,21,24,26**
		7.3	**p.365: 1,7,9,13,21,24**
14	**Nov 24-25**	**7.4**	**p.374: 1,3,5,8,11,13,20,21,25,29**
		November 26-28 is Thanksgiving (no classes)	
15	**Dec 1-5**	**Test III this week**	
		7.5	**p.383: 1,4,7,10,15,25**
		7.6	**p.395: 1,3,5,6,11,15,29, 33,37,39,61,62**
16	**Dec 8-12**	**7.8**	**p.405 : 1,7,12,13,15,23**
		Review for Final	

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.