MATH 221/Sec.601 SYLLABUS SUMMER 2002

CLASS INFO: Text: *Fundamentals of Differential Equations*, Nagle, Saff, Snider, 5th ed., Addison-Wesley (2000). Time: 11:00—12:35 pm, Monday through Friday. Room: OldH 208. Instructor: Dr. Bo Deng, 828 OldH., bdeng@math.unl.edu, 2-7219(no message please). Office Hours: 1:30–2:30, MWF.

COMPUTER LAB: Some work in Math 221 requires 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. There will be 5 10-point computer lab assignments.

CALCULATORS: Calculators are allowed for all exams except for TI 92 and its later models and those that can do symbolic algebra.

DAILY WORK: The exercises suggested below represent a minimal assignment. Some students may have to work out 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. There will be 5 hour exams.

GRADES: Your course grade will be based on a grand total of no more than 550 points for the 5 exams and 5 computer lab assignment.

WEEK	DATES	SECTIONS	EXERCISES
1	July 15–19	1.1–1.5; 2.1–2.3	**p5**: 1, 5, 6, 8, 11, 13, 16. **p14**: 1, 4, 7, 9, 12, 16, 18, 23, 25
			p22: 1, 3, 5, 7, 8, 11, 16. **p31**: 1, 4, 7, 10, 13, 15, 19. **p35**: 1, 3, 7, 12
	Wednesday, July 17, the last day to add/drop a class, and receive a full refund.		
			p51: 3, 6, 9, 15, 20, 23, 31. **p59**: 1, 4, 6, 9, 11, 14, 17, 20, 23. Review.
	Friday, July 19, the final date for dropping a course without being subject to a "W" grade.		
			Review. **Exam 1**.
2	July 22–26	3.1–3.4; 4.1,4.2	**p104**: 1, 2, 5, 7, 9, 12, 21, 25. **p113**: 1, 4, 5, 7, 12. **p121**: 1, 5, 7, 13
			p160: 1, 3, 4. **p.166**: 1, 3, 4, 7, 15, 18, 31. Review.
			Review. **Exam 2**.
3	July 29–Aug 2	4.3–4.9	**p176**: 7, 10, 13, 15, 17, 19, 23. **p189**: 1, 4, 9, 13, 16, 21, 25, 32, 35
	Tuesday, July 30, the final date for changing to or from Pass/No Pass.		
			p198: 1, 5, 9, 16, 21, 25, 33, 36. **p202**: 1, 4, 7, 11, 13, 15, 18
			p211: 1, 5, 9, 15, 18, 21, 27, 33, 37, 39, 45, 49. **p217**: 1, 5, 9, 13, 17. Review.
			Review. **Exam 3**.
4	Aug 5–9	9.5–9.7	**p565**: 1, 3, 5, 11, 12, 13, 31, 33. **p.573**: 1, 3, 5, 13. **579**(optional): 1, 4, 11, 13.
		Supplement	To be assigned. Review.
		7.1–7.6	**p380**: 1, 5, 8, 11, 13, 16, 19, 21, 24, 26, 31. **p386**: 1, 4, 7, 11, 15, 21, 24, 31, 33
			Review. **Exam 4**(Excluding 7.1–7.6).
5	Aug 12–15	7.1–7.6, 7.8	**p396**: 1, 3, 5, 8, 11, 13, 20, 21, 25, 29. **p405**: 1, 4, 7, 10, 15, 21
			p417: 1, 3, 5, 6, 8, 11, 15, 21, 24, 29, 33. **p435**: 13, 15, 17, 18. Review.
			Review. **Exam 5**.

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.