MATH 221/Sec.601 SYLLABUS SUMMER 2015

CLASS INFO: Text: *Differential Equations, Computing and Modeling*, by Edwards and Penney, Fourth Edition. Time: 11:00—12:35 pm, Monday through Friday. Room: OldH 204. Instructor: Dr. Bo Deng, 318 Avery Hall, bdeng@math.unl.edu, 2-7219(no message please). Office Hours: 10:00–10:50, MTWTh, 1:00-2:00, F.

COMPUTER LAB: Some work in Math 221 can be made easier by the use of a computer algebra system, such as Matlab or Mapple, which are freely available for UNL students. They can be downloaded and installed to your personal computer from a campus web site.

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 from the text.

GRADES: Your course grade will be based on two exams, a few quizzes, and a few computer-lab assignments.

WEEK	DATES	SECTIONS	EXERCISES
1	July 13–17	1.1–1.6	p.8: 1, 2, 5, 7, 15, 16, 20, 32. p.17: 1, 4, 7, 15, 19, 24
			p.27: 1, 2, 5, 11, 12, 14, 15, 19. p.43: 1, 4, 7, 10, 13, 15, 19, 35, 40
			p.43: 3, 12, 16, 21, 26, 43, 49, 50. p.56: 3, 6, 16, 17, 19, 20, 22
			p.56: 27, 29, 33, 36. p.74: 1, 3, 6, 9, 13, 31-37, 43, 44
	Wednesday, July 15, the last day to add/drop a class, and receive a full refund.		
	Friday, July 17, the final date for dropping a course without being subject to a "W" grade.		
2	July 20–24	2.1–2.4; 3.1–3.2	p.87: 1, 3, 9, 11, 15. p.98: 1, 3, 6, 7, 9, 19
			p.108: 1, 2, 10, 21. p.121: 1, 3, 5, 6
			p.158: 1, 5, 10, 11, 13, 17, 19, 20-26, 29, 30.
		Reduction of order	p.159: 33-41, 43, 44
			p.170: 1-5, 7, 9, 10, 12, 15, 17, 21, 23, 38, 40, 41, 44
			Review. **Midterm Exam**.
3	July 27–July 31	3.3, 3.5, 5.1–5.4	p.183: 1, 2, 7, 10, 13, 17, 21, 25, 27, 29, 35, 52, 53
			p.210: 1, 5, 7, 9, 12, 20, 22, 23, 29, 31, 34, 39, 53, 54, 58, 59, 61, 62
			p.301: 1, 11, 12, 13, 21, 23, 25, 27, 28, 31, 33, 36
			p.316: 1, 3, 5, 8, 12, 14, 15, 17, 18, 26. p.345: 1, 2, 6, 7, 8
	Tuesday, July 28, the final date for changing to or from Pass/No Pass.		
4	Aug 3–7	7.1–7.5	p.450: 3, 5, 6, 11, 13, 16, 19, 23, 26, 29, 30
			p.462: 1, 3, 4, 6, 9, 11, 12, 17, 19, 20
			p.472: 1-4, 5-10, 11, 13, 14, 15, 16, 19, 21, 27, 29, 31, 37, 38
			p.481: 1, 3, 5, 7, 9, 13, 15, 17, 19, 22, 23, 26, 29, 32, 33, 36, 37
			p.491: 1, 3, 4, 5, 7, 9, 12, 17, 20, 21
	Wednesday, Aug 5, last day to withdraw from one or more courses for the 2nd Five-Week Session.		
5	Aug 10–13	7.5–7.6, 6.1–6.3	p.491: 31-35, p.502: 1, 3, 5, 6, 7, 8
			p.381: 1, 3, 5, 6, 7, 23, 25, 26. p.395: 1, 3, 4, 5, 7, 9, 29, 31, 32
			p.408: 1, 2, 4, 5, 7
		4.1 Application	Review
			Review. **Final Exam**.