Syllabus for SM222 Fall 2011-2012

Differential Equations with Boundary Value Problems, Seventh edition, by Zill and Cullen

Lesson	Date	Section	Problems
1	22 Aug	1.1 Definitions and Terminology	p. 10: 1,2,13,27,29
2	23 Aug	2.1.1 Direction Fields	p. 42: 3,4,5,15,17
3	24 Aug	2.1.2 Autonomous 1st order DE's	p. 43: 19,20,26
4	26 Aug	2.2 Separable DE's	p. 50: 1,6,7,17,25,39
5	29 Aug	2.3 Linear Equatons	p. 60: 3,5,9,10,29,31
6	30 Aug	2.6 Euler's Method	p. 79: 1,6,7
7	31 Aug	3.1 Applications	p. 89: 12,13,17,21,25
8	02 Sep	3.2 Logistic equation	p. 99: 2,4,5
9	06 Sep	1.2 & 4.1 Existence and Uniqueness	p. 17: 9,13,25,26 p. 128: 3,9,10
10	07 Sep	4.1 Linear independence	p. 128: 15,16,18,21,37,38,39
11	09 Sep	Review	
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13	13 Sep	4.3 Linear homogeneous DE's: complex roots	p. 139: 9,11,24,29,43-48
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17	20 Sep	4.4 Undetermined coefficients	p. 129: 41,42,44
18	21 Sep	5.1.1 Undamped springs	p. 194: 1,3,5,9,11
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33	19 Oct	7.6 Solving systems by Laplace transform	p. 298: 1,2,3,14
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58	06 Dec	Test 4	
59	07 Dec	Review for final exam	
60	09 Dec	Review for final exam	

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