

Math 3113-005 – Introduction to Ordinary Differential Equations – Spring 2002
Class Schedule and Homework Assignments

Class	Date	Day	Topic	Homework
1	Jan 15	Tue	1.1 Differential equations and solutions 1.2 General and particular solutions	1.1 # 3,6,13-15,20,22,26,28-29 1.2 # 5,7-8,10-11,15,21,26,31
2	Jan 17	Thu	1.3 Slope fields, existence and uniqueness	1.3 # 1,3,21-25,31-34
3	Jan 22	Tue	1.4 Separable equations	1.4 # 3,5,17,21,24,28,30,38,48,55
4	Jan 24	Thu	1.5 First-order linear equations	1.5 # 3,7,17,24,29,33,37
5	Jan 29	Tue	1.6 Substitutions	1.6 # 3,7,9,18-21,29,44-48
6	Jan 31	Thu	3.1 Second-order linear equations	3.1 # 1,4,9,17-19,23-25,29,33,36,38-39,43-48
7	Feb 5	Tue	3.2 Linear equations	3.2 # 2,3,5-9,14,18,22-24
8	Feb 7	Thu	continue	
	Feb 12*	Tue	Exam I	
9	Feb 14	Thu	3.3 Homogeneous equations	3.3 # 6-8,10-11,18-19,23,25,33,35,39-42
10	Feb 19	Tue	3.4 Vibrations	3.4 # 5-8,13-18
11	Feb 21	Thu	3.5 Nonhomogeneous equations	3.5 # 5,7,9,17,21-24,32-33,47,51
12	Feb 26	Tue	3.8 Boundary-value problems	3.8 # 2-4,7-9,13
13	Feb 28	Thu	continue	
14	Mar 5	Tue	4.1 First-order systems	4.1 # 1,4,10-13,16-17,21-22
15	Mar 7	Thu	4.2 The Method of Elimination	4.2 # 1,3,7,13,21-22
16	Mar 12	Tue	continue	
	Mar 14*	Thu	Exam II	
	Mar 16- Mar 24		Spring Break	
17	Mar 26	Tue	7.1 Laplace transforms	7.1 # 1-4,7-9,11,14-18,20,23,25-29
18	Mar 28	Thu	7.2 Initial value problems	7.2 # 2-3,5-6,11-13,17,19,21,28-31
	Mar 29	Fri	Last day to withdraw without permission of Dean	
19	Apr 2	Tue	7.3 Partial fractions	7.3 # 2-3,6-7,11,15,27,30-32
20	Apr 4	Thu	7.4 Calculus of Laplace transforms	7.4 # 2-3,5-7,9,15-16,19-20,23,25-26,33,36-37
21	Apr 9	Tue	7.5 Periodic and piecewise-cont functions	7.5 # 1-3,7,11-14,19-20,25-27,31-33
22	Apr 11	Thu	7.6 Impulses and delta functions	7.6 # 1,4-6,9-11,13,14
23	Apr 16	Tue	continue	
	Apr 18*	Thu	Exam III	
24	Apr 23	Tue	8.1 Power series methods	8.1 # 2-4,9,12-13,15,17,19
25	Apr 25	Thu	8.2 Ordinary points	8.2 # 1,3,12,16,23,25
26	Apr 30	Tue	8.3 Regular singular points	8.3 # 2-6,9,12,14,17-19,38
27	May 2	Thu	continue	
	May 8	Wed	Final Exam (1:30-3:30 p. m.)	

* Homework notebooks due.