

**Math 3113-001 – Introduction to Ordinary Differential Equations – Fall 2003**  
**Class Schedule and Homework Assignments**

Class	Date	Day	Topic	Homework
1	Aug 26	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 # 5,7-8,10-11,15,19-22,25,30,35
2	Aug 28	Thu	1.3 Slope fields, existence and uniqueness	1.3 # 1,3,11-15,27-29
3	Sep 2	Tue	1.4 Separable equations	1.4 # 3,5,17,21,24,28,34,42,54,61
4	Sep 4	Thu	1.5 First-order linear equations	1.5 # 3,7,17,24,29,33,37
5	Sep 9	Tue	1.6 Substitutions	1.6 # 3,7,9,18-21,29,44,45,49,52,56-60
6	Sep 11	Thu	3.1 Second-order linear equations	3.1 # 1,4,9,17-19,23-25,29,33,36,38-39,43-48
7	Sep 16	Tue	3.2 Linear equations	3.2 # 2,3,5-9,14,18,22-24
8	Sep 18	Thu	continue	
	Sep 23*	Tue	<b>Exam I</b>	
9	Sep 25	Thu	3.3 Homogeneous equations	3.3 # 6-8,10-11,18-19,23,25,33,35,39-42
10	Sep 30	Tue	3.4 Vibrations	3.4 # 5-8,13-18
11	Oct 2	Thu	3.5 Nonhomogeneous equations	3.5 # 5,7,9,17,21-24,32-33,47,51
12	Oct 7	Tue	3.8 Boundary-value problems	3.8 # 2-4,7-9,13
13	Oct 9	Thu	continue	
14	Oct 14	Tue	4.1 First-order systems	4.1 # 1,4,10-13,16-17,21-22
15	Oct 16	Thu	4.2 The Method of Elimination	4.2 # 1,3,7,13,21-22
16	Oct 21	Tue	continue	
	Oct 23*	Thu	<b>Exam II</b>	
17	Oct 28	Tue	7.1 Laplace transforms	7.1 # 1-4,7-9,11,14-18,20,23,25-29
18	Oct 30	Thu	7.2 Initial value problems	7.2 # 2-3,5-6,11-13,17,19,21,28-31
	Oct 31	Fri	<b>Last day to withdraw without permission of Dean</b>	
19	Nov 4	Tue	7.3 Partial fractions	7.3 # 2-3,6-7,11,15,27,30-32
20	Nov 6	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	Nov 11	Tue	7.5 Periodic and piecewise-cont functions	7.5 # 1-3,7,11-14,19-20,25-27,31-33
22	Nov 13	Thu	7.6 Impulses and delta functions	7.6 # 1,4-6,9-11,13,14
23	Nov 18	Tue	continue	
	Nov 20*	Thu	<b>Exam III</b>	
24	Dec 2	Tue	8.1 Power series methods	8.1 # 2-4,9,12-13,15,17,19
25	Dec 4	Thu	8.2 Ordinary points	8.2 # 1,3,12,16,23,25
26	Dec 9	Tue	8.3 Regular singular points	8.3 # 2-6,9,12,14,17-19,38
27	Dec 11	Thu	continue	
	Dec 15	Mon	<b>Final Exam</b> (1:30-3:30 p. m.)	

\* Homework notebooks due.