

**Math 3113-005 – Introduction to Ordinary Differential Equations – Fall 2003**  
**Tentative Class Schedule and Homework Assignments**

Class	Date	Day	Topic	Homework
1	Aug 25	Mon	1.1 Differential equations and solutions	1.1 # 3,6,13-15,20,22,26,28-29
2	Aug 27	Wed	1.2 General and particular solutions	1.2 # 5,7-8,10-11,15,19-22,25,30,35
3	Aug 29	Fri	1.3 Slope fields, existence and uniqueness	1.3 # 1,3,11-15,27-29
4	Sep 3	Wed	1.4 Separable equations	1.4 # 3,5,17,21,24,28,34,42,54,61
5	Sep 5	Fri	1.5 First-order linear equations	1.5 # 3,7,17,24,29,33,37
6	Sep 8	Mon	continue	
7	Sep 10	Wed	1.6 Substitutions	1.6 # 3,7,9,18-21,29,44,45,49,52,56-60
8	Sep 12	Fri	continue	
9	Sep 15	Mon	3.1 Second-order linear equations	3.1 # 1,4,9,17-19,23-25,29,33,36,38-39,43-48
10	Sep 17	Wed	continue	
11	Sep 19	Fri	3.2 Linear equations	3.2 # 2,3,5-9,14,18,22-24
12	Sep 22	Mon	continue	
	Sep 24	Wed	<b>Exam I</b>	
13	Sep 26	Fri	3.3 Homogeneous equations	3.3 # 6-8,10-11,18-19,23,25,33,35,39-42
14	Sep 29	Mon	continue	
15	Oct 1	Wed	3.4 Vibrations	3.4 # 5-8,13-18
16	Oct 3	Fri	continue	
17	Oct 6	Mon	3.5 Nonhomogeneous equations	3.5 # 5,7,9,17,21-24,32-33,47,51
18	Oct 8	Wed	continue	
19	Oct 13	Mon	3.8 Boundary-value problems	3.8 # 2-4,7-9,13
20	Oct 15	Wed	continue	
21	Oct 17	Fri	4.1 First-order systems	4.1 # 1,4,10-13,16-17,21-22
22	Oct 20	Mon	continue	
23	Oct 22	Wed	4.2 The Method of Elimination	4.2 # 1,3,7,13,21-22
24	Oct 24	Fri	continue	
	Oct 27	Mon	<b>Exam II</b>	
25	Oct 29	Wed	7.1 Laplace transforms	7.1 # 1-4,7-9,11,14-18,20,23,25-29
26	Oct 31	Fri	continue	
	Oct 31	Fri	<b>Last day to withdraw without permission of Dean</b>	(see academic calendar)
27	Nov 3	Mon	7.2 Initial value problems	7.2 # 2-3,5-6,11-13,17,19,21,28-31
28	Nov 5	Wed	continue	
29	Nov 7	Fri	7.3 Partial fractions	7.3 # 2-3,6-7,11,15,27,30-32
30	Nov 10	Mon	7.4 Calculus of Laplace transforms	7.4 # 2-3,5-7,9,15-16,19-20,23,25-26,33,36-37
31	Nov 12	Wed	continue	
32	Nov 14	Fri	7.5 Periodic and piecewise-cont functions	7.5 # 1-3,7,11-14,19-20,25-27,31-33
33	Nov 17	Mon	continue	
34	Nov 19	Wed	7.6 Impulses and delta functions	7.6 # 1,4-6,9-11,13,14
35	Nov 21	Fri	continue	
	Nov 24	Mon	<b>Exam III</b>	
36	Dec 1	Mon	8.1 Power series methods	8.1 # 2-4,9,12-13,15,17,19
37	Dec 3	Wed	8.2 Ordinary points	8.2 # 1,3,12,16,23,25
38	Dec 5	Fri	continue	
39	Dec 8	Mon	8.3 Regular singular points	8.3 # 2-6,9,12,14,17-19,38
40	Dec 10	Wed	continue	
41	Dec 12	Fri	review	
	Dec 15	Mon	<b>Final Exam</b> (8:00–10:00 am)	