

**Math 3113-002 – Introduction to Ordinary Differential Equations – Spring 2001**

**Class Schedule and Homework Assignments**

Class	Date	Day	Topic	Homework
1	Jan 17	Wed	1.1 Differential equations and solutions	1.1 # 3,6,13-15,20,22,26,28-29
2	Jan 19	Fri	1.2 General and particular solutions	1.2 # 5,7-8,10-11,15,21,26,31
3	Jan 22	Mon	1.3 Slope fields, existence and uniqueness	1.3 # 1,3,21-25,31-34
4	Jan 24	Wed	1.4 Separable equations	1.4 # 3,5,17,21,24,28-30,38,47
5	Jan 26	Fri	1.5 First-order linear equations	1.5 # 3,7,17,24,29,33,37
6	Jan 29	Mon	continue	
7	Jan 31	Wed	1.6 Substitutions, exact equations	1.6 # 3,7,9,18-21,29,31,38,44-46
8	Feb 2*	Fri	continue	
9	Feb 5	Mon	2.1 Growth and logistic equations	2.1 # 3,7,11-13
10	Feb 7	Wed	2.3 Acceleration and velocity	2.3 # 1-5,19
11	Feb 9	Fri	continue	
	Feb 12	Mon	<b>Exam I</b>	
12	Feb 14	Wed	3.1 Second-order linear equations	3.1 # 1,4,9,17-19,23-25,29,33,36,38-39,43-48
13	Feb 16	Fri	continue	
14	Feb 19	Mon	3.2 Linear equations	3.2 # 2,3,5-9,14,18,22-24
15	Feb 21	Wed	continue	
16	Feb 23	Fri	3.3 Homogeneous equations	3.3 # 6-8,10-11,18-19,23,25,29-30,33,35,39-42
17	Feb 26	Mon	continue	
18	Feb 28	Wed	3.4 Vibrations	3.4 # 5,7,10,15,17-19
19	Mar 2	Fri	continue	
20	Mar 5*	Mon	3.5 Nonhomogeneous equations	3.5 # 5,7,9,17-18,21-24,32-33,47,51,54
21	Mar 7	Wed	continue	
22	Mar 9	Fri	3.8 Boundary-value problems	3.8 # 1-7,13-14
23	Mar 12	Mon	continue	
	Mar 14	Wed	<b>Exam II</b>	
24	Mar 16	Fri	review	
	Mar 17- Mar 25		<b>Spring Break</b>	
25	Mar 26	Mon	4.1 First-order systems	4.1 # 1,4,10,12-13,16-17,30
26	Mar 28	Wed	continue	
27	Mar 30	Fri	4.2 The Method of Elimination	4.2 # 1,3,7,13,21-22
	Mar 30	Fri	<b>Last day to withdraw without permission of Dean</b>	
28	Apr 2	Mon	continue	
29	Apr 4	Wed	7.1 Laplace transforms	7.1 # 1-4,7-9,11,14-18,20,23,25-29
30	Apr 6	Fri	continue	
31	Apr 9	Mon	7.2 Initial value problems	7.2 # 2-3,5-6,11-13,17,19,21,28-31
32	Apr 11	Wed	continue	
33	Apr 13	Fri	7.3 Partial fractions	7.3 # 2-3,6-7,11,15,27,30-32
34	Apr 16	Mon	7.4 Calculus of Laplace transforms	7.4 # 2-3,5-7,9,15-16,19-20,23,25-26,33,36-37
35	Apr 18*	Wed	continue	
36	Apr 20	Fri	7.5 Periodic and piecewise-cont functions	7.5 # 1-3,7,11-14,19-20,25-27,31-33
37	Apr 23	Mon	continue	
38	Apr 25	Wed	review	
	Apr 27	Fri	<b>Exam III</b>	
39	Apr 30	Mon	8.1 Power series methods	8.1 # 2-4,9,12-13,15,17,19
40	May 2	Wed	8.2 Ordinary points	8.2 # 1,3,12,16,23,25
41	May 4	Fri	continue	
	May 9	Wed	<b>Final Exam (4:30-6:30 p. m.)</b>	

\* Homework notebooks due.

Version of February 19, 2001.