

MATH 293 SYLLABUS & HOMEWORK ASSIGNMENTS Fall 2017 Updated 8-27-17

Date	Section & Topic	Homework	Due date
W 8/23	1.1 Introduction	1.1: 18,19,22,23	M 8/28
F 8/25	1.2,1.3 Classification of ODEs	1.2: 1,12 and 1.3: 3,4,6,9	W 9/6
M 8/28	2.2 Separable ODEs	2.2: 2,6,9,25(a-e),26(a,b)	W 9/6
W 8/30	2.1 Integrating Factor	2.1: 9,10,11,12	W 9/6
F 9/1	2.3 Applications	2.3: 4,7,9,24	M 9/11
M 9/4	NO CLASSES LABOR DAY		
W 9/6	2.5 Equilibria and Stability	2.5: 2,7,14,15	M 9/11
F 9/8	2.6 Exact Equations	2.6: 2,7,12,17	M 9/18
M 9/11	2.7 Numerical Integration: Euler's Method	2.7: 1,2	M 9/18
W 9/13	3.1 Homogeneous Second Order ODEs	3.1: 1,3,5,6,7,9,13,17	M 9/18
F 9/15	3.3 Complex numbers, Euler's Formula	3.3: 1,2,3,4,21	M 9/25
M 9/18	3.3 Complex Roots	3.3: 6,10,12	M 9/25
W 9/20	3.4 Repeated Roots, Reduction of Order	3.4: 4,5,9,19,21	M 9/25
F 9/22	3.5 Nonhomogeneous Second Order ODEs	3.5: 1,2,3,4,8,10	M 10/2
M 9/25	3.5 Undetermined Coefficients	3.5: 16a,17a,23	M 10/2
W 9/27	3.6 Variation of Parameters	3.6: 1,7,11	M 10/2
F 9/29	3.6 Variation of Parameters	3.6: 16,18a,23,24	W 10/11
M 10/2	REVIEW for Prelim 1		
	T 10/3, 7:30-9.00 PM Prelim 1		
W 10/4	3.7 Free Vibrations	3.7: 1,6,7,15	W 10/11
F 10/6	3.8 Forced Vibrations, Resonance	3.8: 1,13	M 10/16
M 10/9	NO CLASSES FALL BREAK		
W 10/11	4.1,4.2 Higher Order Linear ODEs	4.1: 19,20 and 4.2: 2,8,16	M 10/16
F 10/13	4.3 Undetermined Coefficients	4.3: 3,5,12,13	M 10/23
M 10/16	5.4 Euler Equations	5.4: 1,3,5,6	M 10/23
W 10/18	10.1 Two-Point Boundary Value Problems	10.1: 1,2,6,7,8	M 10/23
F 10/20	10.1 Two-Point Boundary Value Problems	10.1: 15,16,18	M 10/30
M 10/23	10.2 Fourier Series	10.2: 3,4,7,14,15	M 10/30
W 10/25	10.2 Fourier Series	10.2: 18,20,21,29	M 10/30
F 10/27	10.3 Gibbs Phenomenon	10.3: 1,7,13,15	M 11/6
M 10/30	REVIEW for Prelim 2		
	T 10/31, 7:30-9.00 PM Prelim 2		
W 11/1	10.4 Fourier Series for even and odd functions	10.4: 2,5,11,12,17,18,34,35	M 11/6
F 11/3	10.5 Heat Equation, Separation of Variables	10.5: 1,2,3,4,5,6,7,8	M 11/13
M 11/6	10.5 Heat Equation	10.5: 9,10,13,14	M 11/13
W 11/8	10.6 Heat Equation with other B.C.	10.6: 1,6,8,12	M 11/13
F 11/10	10.7 Wave Equation	10.7: 1abc,7a	M 11/20
M 11/13	10.7 Wave Equation	10.7: 13,16	M 11/20
W 11/15	10.7 Wave Equation	10.7: 21,23	M 11/20
F 11/17	10.8 Laplace's Equation	10.8: 3,4	M 11/27
M 11/20	10.8 Laplace's Equation	10.8: 6ab,15	M 11/27
W 11/22	NO CLASSES THANKSGIVING		
M 11/27	10.8 Laplace's Equation	10.8: 8ab	
W 11/29	REVIEW for Final Exam		
F 12/1	REVIEW for Final Exam		
	Final Exam: Wednesday Dec. 13, 2.00-4:30 PM		

CAUTIONARY NOTE: Some of the answers in the back of the textbook have been seen to be incorrect!