Math 228
1-18-1994

Syllabus - Spring, 1994 (Part 1).

All of the homework assignments are from Boyce and DiPrima, *Elementary Differential Equations and Boundary Value Problems* (5th edition), except those marked **[Notes]**. Those assignments will be handed out in class.

Date		**Topic**	**Assignment**
Jan	17	**MLK Jr. Holiday**	
	19	Introduction (1.1)	9/1,4,11,17,19,24,30,39
	21	Linear equations (2.1)	22/3,6,9,14,21,22
	24	Linear equations (2.2)	28/5,9,17,21,26
	26	Separable equations (2.3)	35/3,4,5,13,17
		Existence and uniqueness (2.4)	41/2,4
	28	Population dynamics (2.6)	62/3,9,15,16,17
	31	Exact equations (2.8)	80/3,8,11,13,15,20,25,28
Feb	2	Homogeneous equations (2.9)	84/1,5,9,15a,15b
	4	Bernoulli equations (2.2)	30/28,29
		Riccati equations (2.10)	87/36
	7	Constant coefficient equations (3.1, 3.5)	120/1,5,6,10; 150/1,8,14
	9	Review	
	10	**Test 1**	
	11	Complex roots (3.4)	142/7,12,17,18,33,34
	14	Higher-order equations (4.2)	200/11,12,14,15,23,27
	16	Independence (3.2)	129/5,9,11,14
		The Wronskian (3.3)	135/4,13,23
	18	Reduction of order (3.5)	150/19,22,25,26
	21	Undetermined coefficients (3.6)	162/3,4,13,20,21
	23	Variation of parameters (3.7)	168/5,6,14,17
	25	Laplace transforms (6.1)	279/1,2,5a,7,13,16
Feb	28	Initial value problems (6.2)	289/1,2,6,10,11,15,17,28,29
Mar	2	Step functions (6.3)	296/2,3,8,9,10,15,16,28,29
	4	Step functions (6.4)	303/3,8,9,11
	7	Impulse functions (6.5)	307/2,4,7,11
	9	Convolution (6.6)	313/4,5,8,9,16,20,21
	11	Convolution (6.6)	
	14	**Spring Break**	
	16	**Spring Break**	
	18	**Spring Break**	
	21	Row reduction (7.3)	343/1,2,4,8,9,12
	23	Review	
	24	**Test 2**	
	25	Eigenvalues (7.3)	343/15,16,20,22