Math 32	5: Differential Equations Syll	abus & Assignments	Fall 1996
Aug. 28	4.1 nth order linear equations	#1 p.194:1-21	odd
30	4.1-2 <i>n</i> th order linear equations		
Sep. 2	4.2 Homogeneous equations with constant coefficients	fficients $\#2 \text{ p.}200:1-27$	odd
4	4.3 Undetermined coefficients	#3 p.205:117	odd
6	8.1 Euler method [$Quiz 1$]	#4 p.392:1,3,5	
9	8.2 Errors	#5 p.398:1,3,5	
11	8.4 Runge-Kutta	#6 p.409:1,3,5	
13	6.1 Definition of Laplace transform	#7 p.279: 1,3,	5-8,11-14,26,27
16	6.2 Solution of initial value problems	#8 p.289:1–23	odd
18	6.2–3 Solution of initial value problems		
20	6.3-4 Step functions [Quiz 2]	#9 p.296:123	odd
	Computer Assignment 1		
23	6.4 Discontinuous forcing functions	#10 p.303:1-1	3odd
25	Review		
26	Exam I		
27	6.5 Impulse functions	#11 p.307:1–1	1odd
30	6.6 Convolution integral	#12 p.313 1-1	9odd
Oct. 2	7.1 Intro to systems of 1st order equations	#13 p.322:1-1	1odd
4	7.2 Matrices	#14 p.332:1,3,	11,13,23,25
7	7.3 Linear systems/independence		
9	7.3 Eigenvalues/vectors	#15 p.343:1,5,	7,9,12,13,15,17,21,23,25a
11	7.4 Basic Theory of 1st order systems	#16 p.349:6,7	
14	7.5 Homogeneous systems, constant coefficient	S	
16	7.5 Homogeneous systems, constant coefficient	s [<i>Quiz 3</i>] #17 p.356:1–9	odd, 17, 19
18	7.6 Complex eigenvalues	#18 p.364:1-9	odd
	Computer Assignment 2	11 I	
19-27	Fall Break		
28	7.7 Repeated eigenvalues	#19 p.371:1-9	odd
30	Review	11 I	
31	Exam II		
Nov. 1	7.8 Fundamental matrices	#20 p.378:1–9	odd
4	7.9 Nonhomogeneous linear systems (variation	of parameters) $\#21 \text{ p.}385:1-7$	odd, 15
6	9.1–2 Autonomous systems	#22 p.437:1-1	5odd
8	9.1–2 Phase plane: linear systems, Mma [Quiz	4] $\#23 \text{ p.}446:1-7$	
11	9.3 Almost linear systems	#24 p.456:1-1	5odd
13	9.3 Almost linear systems, Mma		
15	9.3 Pendulum, Mma		
18	9.4 Competing Species, Mma	#25 p.471:1-5	
$\frac{1}{20}$	9.5 Predator-Prev	#26 p.480:1-5	
22	10.1 Separation of variables, heat conduction	Quiz 5] $\#27 \text{ p.}518:1-1$	1odd
25	10.1 Separation of variables, heat conduction		
27	10.2–4 Fourier series (summary)	#28 p.526:1, 5	5, 9, 15, 17, 21
	Computer Assignment 3	// _ · · · F · · · · · · · · · · · · · · ·	, 。, _。,,
29	Thanksgiving		
Dec. 2	Beview		
	#29 n.533:1-7 odd		
3	Exam III		
4	10.5 Heat equation: non-homogeneous bounda	rv conditions $\#30 \text{ p} 550.23$	5
6	10.6 Wave equation	$\pm 31 \text{ n} 559.1 4$	5
9	10.6 Wave equation	#01 p.000.1,4,	~
11	Review		
$\frac{11}{\text{Dec}}$	Final Exam Thursday 1.45–3.45 NIEU 127		
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