Math 226: Calculus IV

Syllabus

T 15	
Jan. 15	MI Basic Matrix Operations
	Ma Linear Exactions
20	M2 Character Elimination
22	M2 Guassian Emmination
24	M4 Matrix Inversion M5 Determinanta
21	M6 Linear Dependence
29 30	M6 Linear Independence
	M11 Crem Schmidt
гер. э	11.1.2 Introduction to Differential Equations
5 7	2.1 Lincon Equations
10	2.1 Linear Equations
10	2.2 Linear Equations
12	Review L
13	
14	2.3 Non-linear Equations
10	2.4 Separable Equations
19	2.5 Applications of 1st Order Equations
21	2.5 Applications of 1st Order Equations
24	2.6 Population Dynamics & Related Problems
20	2.7 Elementary Mechanics
28	2.8 Exact Equations
Mar. 2	2.9 Integrating Factors
4	2.10 Homogeneous Equations
0 10	3.1 Introduction to 2nd Order Equations
9-13	Midsemester Break
10	3.2 Fundamental Solutions of the Homogeneous Eqn.
18	3.3 Linear Independence (<i>Review</i>)
19	
20	3.4 Reduction of Order
23	3.5 Homogeneous Eqns. with Constant Coefficients
25	3.5.1 Complex Numbers
27	3.6.1 Method of Undetermined Coefficients
30 A 1	3.6.1-3.6.2 Method of Undetermined Coefficients
Apr. 1	3.6.2-3.7.1 Method of Variation of Parameters
<u> </u>	3.7.1 Free Vibrations
6	4.1 Power Series
8	4.1 Power Series 4.2 Series Salue et en Ondineurs Brint I
10	4.2 Series Solins at an Ordinary Point I
15	4.2.1 Series Soins at an Ordinary Point II
15	
$\frac{1}{20}$	Good Friday
20	Easter Monday
21	Exam III 4.2 December Singular Deints
22	4.5 Regular Singular Points
24	4.4 Euler Equations
27	4.5 Series Soms at a Regular Singular Point I
29 Mari 1	4.5.1 Series Soins at a Regular Singular Point II Devices & Course Exclustion
may 1	
5	Final Exam