Syllabus

T 10	MD : M : O :
	M1 Basic Matrix Operations
	M1 Row & Column Operations
	M2 Linear Equations Quiz 1
	M2 Guassian Elimination
	M4 Matrix Inversion
	M5 Determinants Quiz 2
	M6 Linear Dependence
	M6 Linear Independence
	M11 Gram-Schmidt Quiz 3
3	1.1–1.2 Introduction to Differential Equations
5	2.1 Linear Equations
8	2.2 Linear Equations Assignment 1
10	Review
11	Exam I
12	2.3 Non-linear Equations
15	2.4 Separable Equations Quiz 4
17	2.5 Applications of 1st Order Equations
19	2.5 Applications of 1st Order Equations
22	2.6 Population Dynamics & Related Problems Quiz 5
24	2.7 Elementary Mechanics
26	2.8 Exact Equations
Mar. 1	2.9 Integrating Factors Quiz 6 & Assignment 2
	2.10 Homogeneous Equations
5	3.1 2nd Order Equations
8–12	Midsemester Break
15	3.2 Fundamental Solutions of the Homogeneous Eqn.
17	3.3 Linear Independence (Review)
	Exam II
19	3.4 Reduction of Order
22	3.5 Constant Coefficient Homogeneous Eqns. Quiz 7
	3.5.1 Complex Numbers
	3.6 Method of Undetermined Coefficients
29	3.6-3.6.1 Undetermined Coefficients Quiz 8 & Assignment 3
31	3.6.1-3.7 Variation of Parameters
Apr. 2	3.7 Free Vibrations
	4.1 Power Series
	4.1 Power Series
	Good Friday
	Easter Monday
	4.2 Series Solns at an Ordinary Point I Quiz 9
	4.2.1 Series Solns at an Ordinary Point II
	4.3 Singular Points (Review) Assignment 4
	Exam III
	4.4 Euler Equations
	4.5 Series Solns at Singular Point I
	4.5.1 Series Solns at Singular Point II
	Review & Course Evaluation
	Study Day
	Final Exam