

Math 225, Fall 2002, Tentative Schedule:

Date	Section/Topic
W 8/28/02	First Day Handout; §1.1 – Background
F 8/30/02	§1.2 – Solutions and Initial Value Problems
W 9/4/02	§1.3 – Direction Fields
F 9/6/02	§1.4 – Phase Line
M 9/9/02	§1.5 – Approximation Method of Euler
W 9/11/02	§2.2 – Separable Equations
F 9/13/02	§2.3 – Linear Equations
M 9/16/02	Review for Exam 1
W 9/18/02	§3.2 – Compartmental Analysis
F 9/20/02	EXAM 1
M 9/23/02	§3.2 – Compartmental Analysis
W 9/25/02	§3.5 – Improved Euler's Method
F 9/27/02	§3.6 – Higher-Order Numerical Methods: Taylor and Runge-Kutta
M 9/30/02	§4.1 – Introduction: the Mass-Spring Oscillator
W 10/2/02	§4.2 – Linear Differential Operators
F 10/4/02	§4.3 – Fundamental Solutions of Homogeneous Equations
M 10/7/02	§4.3 – Fundamental Solutions of Homogeneous Equations

Date	Section/Topic
W 10/9/02	§4.5 – Homogeneous Linear Equations with Constant Coefficients
F 10/11/02	§4.6 – Auxiliary Equations with Complex Roots
M 10/14/02	§4.8 – Method of Undetermined Coefficients
W 10/16/02	§4.7 – Superposition and Nonhomogeneous Equations
F 10/18/02	Review for Exam 2
M 10/21/02	§4.9 – Variation of Parameters
W 10/23/02	EXAM 2
F 10/25/02	§5.2 – Introduction to the Phase Plane
M 10/28/02	§5.4 – Coupled Mass-Spring Systems
W 10/30/02	§7.2 – Definition of Laplace Transform
F 11/1/02	§7.2 – Definition of Laplace Transform
M 11/4/02	Student Presentations
W 11/6/02	§7.3 – Properties of the Laplace Transform
F 11/8/02	§7.4 – Inverse Laplace Transform
M 11/11/02	§7.4 – Inverse Laplace Transform
W 11/13/02	§7.5 – Solving Initial Value Problems
F 11/15/02	Student Presentations
M 11/18/02	§7.6 – Transforms of Discontinuous and Periodic Functions

Date	Section/Topic
W 11/20/02	§7.6 – Transforms of Discontinuous and Periodic Functions and Review for Exam 3
F 11/22/02	§9.3 – Review 2: Matrices and Vectors
M 11/25/02	EXAM 3
W 11/27/02	§9.4 – Linear Systems in Normal Form
F 11/29/02	Thanksgiving Break
M 12/2/02	§9.5 – Homogeneous Linear Systems with Constant Coefficients
W 12/4/02	§12.2 – Linear Systems in the Plane
F 12/6/02	Connections Between Eigenvalues and Guess and Test Method
M 12/9/02	Review for Final Exam
M 12/16/02	FINAL EXAM