

Math 225, Spring 2002, Tentative Schedule:

Date	Section/Topic
M 1/28/02	First Day Handout; §1.1 – Background
W 1/30/02	§1.2 – Solutions and Initial Value Problems
F 2/1/02	§1.3 – Direction Fields
M 2/4/02	§1.4 – Phase Line
W 2/6/02	§1.5 – Approximation Method of Euler
F 2/8/02	§2.2 – Separable Equations
M 2/11/02	§2.3 – Linear Equations
W 2/13/02	§2.4 – Exact Equations
F 2/15/02	§3.2 – Compartmental Analysis
M 2/18/02	EXAM 1
W 2/20/02	§3.4 – Newtonian Mechanics
F 2/22/02	§3.5 – Improved Euler's Method
M 2/25/02	§3.6 – Higher-Order Numerical Methods: Taylor and Runge-Kutta
W 2/27/02	§4.1 – Introduction: the Mass-Spring Oscillator
F 3/1/02	§4.2 – Linear Differential Operators
M 3/4/02	§4.3 – Fundamental Solutions of Homogeneous Equations
W 3/6/02	§4.3 – Fundamental Solutions of Homogeneous Equations

Date	Section/Topic
F 3/8/02	§4.5 – Homogeneous Linear Equations with Constant Coefficients
M 3/11/02	§4.6 – Auxiliary Equations with Complex Roots
W 3/13/02	§4.7 – Superposition and Nonhomogeneous Equations
F 3/15/02	§4.8 – Method of Undetermined Coefficients
M 3/18/02	§4.9 – Variation of Parameters
W 3/20/02	§4.10 – Qualitative Considerations for Variable-Coefficient and Nonlinear Equations
F 3/22/02	EXAM 2
M 3/25/02	SPRING BREAK
W 3/27/02	SPRING BREAK
F 3/29/02	SPRING BREAK
M 4/1/02	§5.2 – Introduction to the Phase Plane
W 4/3/02	§5.3 – Elimination Method for Systems
F 4/5/02	§5.4 – Coupled Mass-Spring Systems
M 4/8/02	§7.2 – Definition of Laplace Transform
W 4/10/02	§7.2 – Definition of Laplace Transform
F 4/12/02	§7.3 – Properties of the Laplace Transform
M 4/15/02	§7.4 – Inverse Laplace Transform
W 4/17/02	§7.4 – Inverse Laplace Transform
F 4/19/02	§7.5 – Solving Initial Value Problems
M 4/22/02	§7.6 – Transforms of Discontinuous and Periodic Functions

Date	Section/Topic
W 4/24/02	§7.6 – Transforms of Discontinuous and Periodic Functions
F 4/26/02	§7.7 – Convolutions
M 4/29/02	§9.2 – Review 1: Linear Algebraic Equations
W 5/1/02	§9.3 – Review 2: Matrices and Vectors
F 5/3/02	§9.4 – Linear Systems in Normal Form
M 5/6/02	§9.5 – Homogeneous Linear Systems with Constant Coefficients
W 5/8/02	§9.6 – Complex Eigenvalues
F 5/10/02	§12.2 – Linear Systems in the Plane
M 5/13/02	Review for Final Exam
F 5/17/02	FINAL EXAM