

Math 225, Spring 2004, Tentative Schedule:

Date	Section/Topic
W 1/28/04	First Day Handout; §1.1 – Background
F 1/30/04	§1.2 – Solutions and Initial Value Problems
M 2/2/04	§1.3 – Direction Fields
W 2/4/04	§Project D – Phase Line
F 2/6/04	§1.4 – Approximation Method of Euler
M 2/9/04	§2.2 – Separable Equations
W 2/11/04	§2.3 – Linear Equations
F 2/13/04	Review for Exam 1
M 2/16/04	§3.2 – Compartmental Analysis
W 2/18/04	EXAM 1
F 2/20/04	§3.2 – Compartmental Analysis
M 2/23/04	§3.6 – Improved Euler's Method
W 2/25/04	§3.7 – Higher-Order Numerical Methods: Taylor and Runge-Kutta
F 2/27/04	§4.1 – Introduction: the Mass-Spring Oscillator
M 3/1/04	§4.2 – Homogeneous Linear Equations: The General Solution
W 3/3/04	§4.2 – Homogeneous Linear Equations: The General Solution
F 3/5/04	§4.2 – Homogeneous Linear Equations: The General Solution
M 3/8/04	§4.3 – Auxiliary Equations with Complex Roots

Date	Section/Topic
W 3/10/04	§4.4 – Nonhomogeneous Equations: Method of Undetermined Coefficients
F 3/12/04	§4.5 – Superposition and Undetermined Coefficients
M 3/15/04	§4.6 – Variation of Parameters
W 3/17/04	Review for Exam 2
F 3/19/04	EXAM 2
M 3/22/04	SPRING BREAK
W 3/24/04	SPRING BREAK
F 3/26/04	SPRING BREAK
M 3/29/04	§5.2 – Elimination Method for Systems with Consistent Coefficients
W 3/31/04	§5.4 – Introduction to the Phase Plane
F 4/2/04	§5.5 – Coupled Mass-Spring Systems
M 4/5/04	§7.2 – Definition of Laplace Transform
W 4/7/04	§7.2 – Definition of Laplace Transform
F 4/9/04	§7.3 – Properties of the Laplace Transform
M 4/12/04	STUDENT PRESENTATIONS
W 4/14/04	STUDENT PRESENTATIONS
F 4/16/04	STUDENT PRESENTATIONS
M 4/19/04	§7.4 – Inverse Laplace Transform
W 4/21/04	§7.4 – Inverse Laplace Transform
F 4/23/04	§7.5 – Solving Initial Value Problems

Date	Section/Topic
M 4/26/04	§7.6 – Transforms of Discontinuous and Periodic Functions
W 4/28/04	§7.6 – Transforms of Discontinuous and Periodic Functions and Review for Exam 3
F 4/30/04	EXAM 3
M 5/3/04	§9.5 – Homogeneous Linear Systems with Constant Coefficients
W 5/5/04	Linear Systems in the Plane
F 5/7/04	Connections Between Eigenvalues and Guess and Test Method
M 5/10/04	Review for Final Exam
M 5/17/04	FINAL EXAM