

## Tentative Schedule of Lectures and Examinations

Date	Topic
W Jan. 19	What is a dynamical system?
M Jan. 24	Fundamental existence and uniqueness theory
W Jan. 26	Existence and uniqueness theory continued
M Jan. 31	Continuous dependence on initial conditions
W Feb. 2	Continuous dependence (continued)
M Feb. 7	Continuous dependence on parameters
W Feb. 9	Continuous dependence (continued)
M Feb. 14	Definition of dynamical systems
W Feb. 16	Integral curves, flow domains and flows
M Feb. 21	Linear systems
W Feb. 23	Equilibrium points and stability
M Feb. 28	Review
W Mar. 2	<b>Exam 1</b>
M Mar. 7	Classification of equilibria
W Mar. 9	Local theory: Linearization
M Mar. 14	<b>Spring Recess</b>
W Mar. 16	<b>Spring Recess</b>
M Mar. 21	Linearization (continued)
W Mar. 23	Stable and unstable manifolds
M Mar. 28	The Hartman-Grobman Theorem
W Mar. 30	Orbits, limit sets and attractors
M Apr. 4	Invariant sets
W Apr. 6	Liapunov functions
M Apr. 11	Planar systems
W Apr. 13	The Poincaré-Bendixson Theorem
M Apr. 18	Structural stability
W Apr. 20	Bifurcation
M Apr. 25	Review
W Apr. 27	<b>Exam 2</b>
M May 2	Review
W May 4	Review
M May 9	<b>Final Examination</b>