

MAP 5932/ MAT 4905
Advanced Dynamical Systems
Office hours: MW 12:00-1:00
MTWRF 9:30-10:50
LOV 0106

Instructor: Nick Cogan
Office: LOV 002-E
Phone: 644-7196
E-mail: cogan@math.fsu.edu
Website: www.math.fsu.edu/~cogan/

Text Geometric Dynamical Systems: C. Jones. The notes are available at Target Copy on Tennessee for a nominal (about 8\$) fee.

- This course is designed to be accessible to a variety of students. The course will cover differential equations and maps as well as their inter-relations. Many examples of geometric analysis will be covered including Hamiltonian systems, Poincare-Bendixson, invariant sets. The objective is to broaden the approach of dynamical systems to consider geometric considerations.
- Homework will be assigned essentially every day. We will spend alternate days presenting homework solutions as a class. The course grades will be determined by participation with the possibility of collecting homework if necessary.