

Mathematics 8750: Dynamical Systems

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Textbook: Nonlinear Oscillations, Dynamical Systems, and Bifurcations of Vector Fields, by John Guckenheimer and Philip Holmes.

About this course We will work through the text as a group. Most of the classroom time will be devoted to the exercises, either as presentations by the instructor (that's me!), or by individual students, or as brainstorming sessions by the class. Students should expect to present about one problem every two weeks. Students will also be asked to choose a project to explore. They will be expected to write a 3-5 page paper on that subject and to present the material to the class.