

# Math 5535: Introduction to Dynamical Systems and Chaos

**Instructor:** Marshall Hampton

**Meeting time and location:** 2:30 - 3:20 MWF, Vincent 364.

**My office hours:** 3:30-4:30 Monday, 1:30 - 2:20 Wednesday, or by appointment in Vincent 240.

**Course Webpage:** <http://www.math.umn.edu/~hampton/math5535.html>. This will have homework assignments, recommended reading and websites, project ideas, and other information.

**My email:** hampton@math.umn.edu

**Tests:** There will be two midterms, October 13th and December 1st, as well as our final on December 18th. The final exam is from 10:30 - 12:30 in the regular room.

**Grading:** The three tests, homework, and project will all count equally (roughly each 1/5 of the grade). A very small (5%) component will be class participation.

**Homework:** The homework will be due every Wednesday in class. Every homework will be graded out of 10 points. A late homework will lose 2 points/day.

**Text:** Clark Robinson's *Introduction to Chaotic Dynamical Systems*.

**Project:** The project can be done in groups of 1-3 people. I will post some suggestions for project topics on the web page, but you can also come up with your own. Most projects should have a written component of 5+ pages, although if a significant effort is made with mechanical models, computer programs, etc., they can be slightly shorter.

**Topics:** I hope to cover at least chapters 1-9 in the text, hopefully more than that, plus some additional topics not in the text.