

Math 4542 Dynamics and Bifurcations II

Math 4542 is not taught on a regular basis and is currently inactive.

Dynamics and Bifurcations II

Department: MATH

Course Number: 4542

Hours - Lecture: 3

Hours - Lab: 0

Hours - Recitation: 0

Hours - Total Credit: 3

Typical Scheduling: Every even spring

Description:

A continuation of Dynamics and Bifurcations I

Prerequisites:

[Math 4541](#)

Course Text:

At the level of *Dynamics and Bifurcations*, Hale

Topic Outline:

- Global Bifurcations

- Planar Maps

- Hyperbolic Symbolic Dynamics

- Chaos

- Lyapunov Exponents

- Ergodicity

- Statistics of Dynamical Systems