Math 564: Introduction to Dynamical Systems I

This course is an introduction to the theory of dynamical systems. The course will cover linear maps and differential equations, nonlinear systems, conservative dynamics, one-dimensional dynamics and connections with ergodic theory and number theory.

3 Credits

Prerequisites
• Pre-req: Math 353 with a minimum grade of C or Graduate Standing.

Instruction Type(s)
• Lecture: Lecture for Math 564

Subject Areas
• Mathematics, General

Related Areas
• Algebra and Number Theory
• Analysis and Functional Analysis
• Geometry/Geometric Analysis
• Topology and Foundations