

# 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