

# 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**

- <u>Algebra and Number Theory</u>
- Analysis and Functional Analysis
- <u>Geometry/Geometric Analysis</u>
- <u>Topology and Foundations</u>

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