

# Math 564: Introduction to Dynamical Systems I

## [Mathematics](#)

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](#)

