

# Math 567: Introduction to Functional Analysis I

## Mathematics

Hilbert spaces, Banach spaces, Hahn-Banach Theorem, Banach Steinhaus Theorem, Open Mapping Theorem, weak topologies, Banach-Alaoglu Theorem, and Classical Banach spaces.

3 Credits

### Prerequisites

- [Math 556: Advanced Calculus II](#) (Minimum grade: C)
- Prerequisite: Junior standing (60 hr).

### Instruction Type(s)

- Lecture: Lecture for Math 567

### Subject Areas

- [Mathematics, General](#)

### Related Areas

- [Algebra and Number Theory](#)
- [Analysis and Functional Analysis](#)
- [Geometry/Geometric Analysis](#)
- [Topology and Foundations](#)

