

# Math 567: Introduction to Functional Analysis I

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)

## Instruction Type(s)

• Lecture: Lecture for Math 567

### **Subject Areas**

• Mathematics, General

### **Related Areas**

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

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