

# 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**

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

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