

# 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>
- Topology and Foundations

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.

