

# Math 667: Functional Analysis I

Topological vector spaces (tvs); complete tvs; product and quotient tvs; separation theorems for convex sets; locally convex spaces; Krein-Milman theorem; linear operations; dual pairs and Mackey-Arens theorem; Alaoglu-Bourbaki theorem; and bornological and barreled spaces.

#### 3 Credits

#### Instruction Type(s)

• Lecture: Lecture for Math 667

## Subject Areas

<u>Mathematics, General</u>

### **Related Areas**

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

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