

**SYLLABUS**  
**MAT 702, Functional Analysis**

**Instructor:** Prof. Eugene Poletsky  
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**Office hours:** TTH 2--3:30, and by appointment.

Class meetings are in Carnegie 311, 3:40--4:50 TTH

**Course Description:** This course is designed to introduce students to basic principles of functional analysis. We start with Hilbert spaces and will cover the first six chapters of the book with some omissions.

**Text:** John Conway, A Course in Functional Analysis, 2<sup>nd</sup> ed., Springer

**Homework:** For each section one problem will be assigned, collected and graded. Students are encouraged to solve as many problems in the book as possible. Discussions of these problems outside of the classroom are available.

**Grades:** Course grades will be based on written homework.