

MATH 8801, Fall 2021, MWF 1:25-2:15, Vincent Hall 2

Instructor: Jiaping; Vincent Hall 223, (612) 624-3829, jiaping@math.umn.edu

Office hours: MWF 2:30-4:20

Course title and a brief description: Functional Analysis

This one semester course on functional analysis will cover the general theory (Banach-Steinhaus theorem, open mapping theorem, Hahn-Banach theorem, spectrum of compact operator) and spectral theory for bounded self-adjoint operators on Hilbert spaces.

Text: Walter Rudin, Functional Analysis, McGraw-Hill Companies, Inc. (2nd edition).

Assignments: Homework will be assigned regularly and posted on the Canvas course site and web page www.math.umn.edu/~jiaping. Completed homework should be submitted as PDF file through the Canvas course site.

Exams: No exams are scheduled.

Grading scheme: The final grade is based on homework completion.