

Mathematics 113: Functional Analysis

Winter 2008

Dartmouth College

[I feel] engulfed in the infinite immensity of spaces whereof I know nothing, and which know nothing of me, I am terrified. The eternal silence of these infinite spaces alarms me.

– Blaise Pascal, *Pensees* (1670)

Textbook

Functional Analysis: Entering Hilbert Space, by Vagn Lundsgaard Hansen.

Lectures

MWF 1:45 – 2:50 pm Kemeny 004

x-hour: Thurs: 1:00–1:50 pm

Instructor

Professor John D. (Jody) Trout

Office: 302 Kemeny Hall

Phone: 646 – 2958 or BlitzMail (preferred)

Office hours: Mon 4 – 5 pm, Tues 1 – 3 pm, Fri 3 – 5 pm or by appointment.

Homework

Written homework will be assigned weekly on the middle lecture of the week (usually Wednesday) and will be due at the beginning of the middle lecture of the following week. Late papers will not be graded. Missing papers count zero. Moreover, neatness counts; if the professor can't read your proofs, you get no credit.

Grades

There will be (approximately) ten homework assignments worth 20 points each, but the points are not to be interpreted literally. Your grade in this course will depend not only on the homework assignments but also on your input and class participation.

Honor Principle

On Homework: You may talk to other students in the class while you are in the process of thinking about a problem, but only in general terms of the material covered. However, when it comes time to write up your proofs, you should do this by yourself without outside assistance. If you are stuck on a certain problem, you may ask the professor for hints or direction (but I will not give out the answer!).