## MAT 702 Spring 2010 3:45-5:05 MW

- **Professor:** Andrew Vogel PB 229F, 3-1584, alvogel@syr.edu, Office hours: TuTh, 10:00-11:00pm, W, 9:00-10:00pm, and by appointment.
- **Text Book:** Conway, John B. A course in functional analysis. Second edition. Graduate Texts in Mathematics, 96. Springer-Verlag, New York, 1990 Other books on functional analysis you may consider looking at:

• Reed, Michael; Simon, Barry Methods of modern mathematical physics. I. Functional analysis. Academic Press, New York-London, 1972.

· Yosida, Kosaku *Functional analysis.* Reprint of the sixth (1980) edition. Classics in Mathematics. Springer-Verlag, Berlin, 1995

· Taylor, Angus E.; Lay, David C. Introduction to functional analysis. Reprint of the second edition. Robert E. Krieger Publishing Co., Inc., Melbourne, FL, 1986.

· Dunford, Nelson; Schwartz, Jacob T. *Linear operators*. Part I. General theory. With the assistance of William G. Bade and Robert G. Bartle. Reprint of the 1958 original. Wiley Classics Library. A Wiley-Interscience Publication. John Wiley & Sons, Inc., New York, 1988 (there are also two more parts).

- **Course Content:** Chapters 1-6 with some omissions. This includes Hilbert Spaces and operators on Hilbert spaces. Banach Spaces and operators on Banach spaces. Weak Topologies.
- **Grading:** Written homework from each section covered will determine your grade. Consulting with other students on these problems is encouraged, **but** the work you turn in for grading should be your own, in your own words.

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