MAT 701 Fall 2010
8-9:20 TuTh

Professor: Andrew Vogel PB 229F, 3-1584, alvogel@syr.edu, Office hours: TuTh 1-2pm, WF 9:00-10:00am, and by appointment.

Text Book: Real Analysis Modern Techniques and Their Applications, Second Edition, Gerald Folland, Wiley-Interscience, 1999. Other books you should be reading in are

Course Content: Chapters 1, 2, 3, parts of 5, parts of 6. Topics include: \( \sigma \)-algebras, outer measures, borel measures, measurable functions, integration, modes of convergence, Fubini-Tonelli theorem, signed measures, Radon-Nikodym theorem, differentiation of measures, Banach Spaces, linear functionals, uniform boundedness principle, \( L^p \) spaces and their duals. Other topics as time permits.

Grading: Homework 30%, one semester exam 30% in the last half of October and a final exam 40%. You are encouraged to discuss the homework problems with each other, but what you write up and hand in should be your own.

Academic Integrity: The Syracuse University Academic Integrity Policy holds students accountable for the integrity of the work they submit. Students should be familiar with the Policy and know that it is their responsibility to learn about instructor and general academic expectations with regard to proper citation of sources in written work. The policy also governs the integrity of work submitted in exams and assignments as well as the veracity of signatures on attendance sheets and other verifications of participation in class activities. Serious sanctions can result from academic dishonesty of any sort. For more information and the complete policy, see http://academicintegrity.syr.edu

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