Math 756 Course Outline

Fall 2012

TTH 2:00 -3:15

Text: Functional Analysis. An Introduction
by: Yuli Edelman, Vitali Milman, Antonis Tsolomitis

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Office hours: MW 10:30–12:00, or by appointment
Homework assignments http://www.math.sc.edu/~schep/homework756-2012.html
Final: Take Home exam, counting 20%
Weekly HW: 80%. The text has extensive hints, so hw grading will often be a check to see whether you have understood the hint
Material to be covered: Chapters: 1, 2, 3, 4, 9
Attendance policy: A grade penalty can be invoked, if more than 10% of classes are missed.
Learning Objectives: The objective of this course is to provide you with the basic tools of Functional Analysis. If you are successful you will be able to read more advanced research papers in Functional Analysis, apply the main theorems (Hahn-Banach, Open mapping Theorem, Closed Graph Theorem, and Uniform boundedness principle in other areas of mathematics)
Cellphone policy: Please turn your phone off or on silent mode while in class.