

Math 756 Course Outline

Fall 20121

TTH 2:00 -3:15

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

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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.