Grading Policy

We will have occasional homework giving 100 points total. Each student will write a short expository paper on a topic chosen in consultation with the instructor, and the and make a class presentation for 100 points. Out of the 200 points total, the minimum cut-offs for letter grades are: A 180-200; B 160-179; C 140-159. If your final total of all scores is within one of these intervals you are guaranteed to receive the corresponding letter grade or higher.

Course Content

This course is a continuation of MA676 Real Analysis I. We will begin with chapter 4 on Hilbert and Banach space theory and move onto Chapter 5 with examples. Along the way, we’ll discuss the Fourier series and transform, and solutions to partial differential equations. We’ll also study aspects of the theory of linear operators. We will cover sections 1-4 of Chapter 6 on general measure and integration theory. We will discuss the theory of $L^p$-spaces and the topics listed below. Each student is to read a research paper, chosen in consultation with the instructor, write a short version of the paper in LaTex or Scientific Word, and make a class presentation.

There are other good books that I recommend:

H. Royden: *Real Analysis*. Macmillan

Special Dates

7 September Labor Day - No classes
19 October Midterm of Fall 2009 Semester
6 November Last day to withdraw from a course
25–27 November Thanksgiving Break - No Classes
11 December Last Class