Math 7350 Fall 2015
Course Info

Room/Time: DH 231 MW 12:40 - 2:05 pm; plus, weekly problem session (details below).

Text: Real Analysis (Modern Techniques and Their Applications), 2nd edition, by Folland.

Instructor: Dr. J. Campbell, DH 213, jcampbll@memphis.edu.

Office Hours: Monday 2:30 - 4:00 pm, and by appointment. Do not be shy if you need to see me and cannot make my office hours, I will gladly set an appointment.

Course Structure: Lecture; written homework turned in bi-weekly; weekly problem session presentation (see next item); mid-term exam and final exam.

Weekly Problem Presentations: Because this is a qualifying-exam course, student problem-solving is essential for student success. Each week we will meet for one (extra) hour for students to present problem solutions to the entire class (including me). It will be made clear which problems are to be presented. You should be sure to have those problems written up before you come into the session. *We need to pick a day and time for this.* The session is in addition to bi-weekly written problems, which you will submit directly to me.

Grading: Homework, Problem Presentations, Mid-term and Final 25% each.

Scale: Because mathematical work at this level is a combination of pugilism and art, I reserve the right to grade in a qualitative fashion. However, grades will not be assigned in an arbitrary manner; necessary illuminating comments will be written on the paper(s) and/or discussed with the student. I will use $\pm$ grading, hopefully only $+$.

Syllabus: This is the first of a two-course sequence, the contents of which are included on a mandatory qualifying exam for Ph. D. students. The exam covers the topics in chapters 1-3, parts of chapter 4, and most of chapters 5 & 6 of the text. Our goal for the semester is to get through chapters 1-3 at least, and possibly a portion of the other chapters listed.

Final Exam: W Dec 9, 10:00 am to 12:00 pm.

Holidays: Labor Day Mon Sept. 7; Fall Break Mon-Tu Oct. 12-13; Thanksgiving Wed Nov. 25.