

MATH 132. Real Analysis II HMC, Fall 2006

Course Information

Prof. Francis Edward Su Olin 1269 x73616 su@math.hmc.edu

Course Content:

This course is a continuation of Math 131. Glad you could join us! Topics will include a differentiation review, Riemann-Stieltjes integration, convergence of functions, calculus in higher-dimensional Euclidean spaces (including some exposure to differential forms), the inverse and implicit function theorems, and an introduction to Lebesgue integration and measure theory.

Text: Rudin's *Principles of Mathematical Analysis*.

Course Webpage: <http://www.math.hmc.edu/~su/math132/>

Coursework: Homeworks will be assigned and collected weekly, due on Tuesdays at 11am in the box outside my office door.

Homework, midterm, final exam, and final project will each be worth 1/4 of your grade. The midterm will (tentatively) be handed out Friday October 6, due the following Tuesday October 10. The final exam will be handed out the last week of classes and due on the scheduled day of the exam.

Details of the final project will be revealed at a later time. It will be due November 21. A draft will be due earlier.

Honor Code: Cooperation on HW assignments is fine (and in fact encouraged), but appropriate acknowledgements should be given, and you are expected to write up your solutions INDIVIDUALLY, i.e., it should be the case that after said cooperation you have understood the solution well enough to explain it on the homework! It is appropriate to acknowledge the assistance or cooperation of others when given.

Regular Office Hours: MONDAYS at 4pm or by appointment!