

# Math 554/703I Course Outline

Fall 2010

Text : *A First Course in Real Analysis*  
Springer, Undergraduate Texts in Mathematics  
by: Sterling K. Berberian

Professor : Anton R. Schep

Office : LeConte 300C

Email : schep@math.sc.edu

Web page : //www.math.sc.edu/~schep/math554-2010.html

Office hours : MW 10:30–12:00 (or by walk-in or appointment)

Tests : 2 one hour tests, each counting 25%, 1 Final exam counting 35%

Tentative test dates: September 30, November 18

HW+Quizzes : 15%

Homework assignments : //www.math.sc.edu/~schep/homework554-2010.html

Date of Final Exam : Friday, December 12 - 2:00 p.m.

Material to be covered : Appendices A1, A2, Chapters: 1, 2, 3, 4, 5, 6, ...

One of the goals of this course is to provide the theoretical foundation of many results used in Calculus. In Calculus the emphasis is on how to calculate limits, derivatives and integrals, while here the emphasis will be on the definitions, theorems and proofs, which show the justification of what we do in Calculus. This is the Honor's version of the class, which does not necessarily mean that we will cover more topics than the regular version of the course. We will however explore a number of topics in more depth than the regular class.

Make-up policy : No make-ups for missed homework or quizzes (lowest 2 or 3 scores will be dropped), make-ups for missed hourly tests or final will be given if they were missed for legitimate reasons. In this case any effort should be made to contact me as soon as possible and you might need to provide documentation to support your reasons for missing the tests.

Learning Outcomes: Students will master concepts of real analysis and learn how to do proofs.

Cell Phone Policy: Please remember to turn off or silence your phone prior to class. No texting allowed during class.

Attendance policy : A grade penalty can be invoked, if more than 10% of classes are missed.

Graduate Credit : Students in Math 703I or students taking Math 554 for graduate credit will have additional or some different questions on tests and quizzes.