

# Math 555/704I Course Outline

Spring 2018

Text : *Elementary Real Analysis*  
<http://classicalrealanalysis.info/com/Elementary-Real-Analysis.php>  
by: Brian S. Thomson Judith B. Bruckner, Andrew M. Bruckner

Professor : Anton R. Schep

Office : LeConte 314F

Email : [schep@math.sc.edu](mailto:schep@math.sc.edu)

Web page : [//people.math.sc.edu/schep/math555and704I-2018.html](http://people.math.sc.edu/schep/math555and704I-2018.html)

Office Hours : MW 11:00–12:15

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

Tentative test dates: February 20, April 17

HW: 15%

Homework assignments : [//people.math.sc.edu/schep/homework555and704I-2018.html](http://people.math.sc.edu/schep/homework555and704I-2018.html)

Due date of Final Exam : Tuesday, May 8 - 12:30 p.m.

Instead of an in class final there will be a take home final, consisting of a list of problems assigned during the semester.

Material to be covered : Chapters: 3, 8, 9, 10, 11

One of the goals of this course is to provide the theoretical foundation of derivatives and integrals and the Fundamental Theorem of Calculus. The emphasis will be on the definitions, theorems and proofs, which show the justification of what we do in Calculus.

Make-up policy : No make-ups for missed homework (lowest 2 or 3 scores will be dropped), make-ups for missed hourly tests 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 pertaining to differentiation and integration, including a short introduction to the Lebesgue measure.

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 taking Math 555 for graduate credit will have additional or some different questions on tests and quizzes.