Math 703 Course Outline

Fall 2015

TR 1:15 -2:30

Text: *From Real to Complex Analysis*
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Office hours: MW 10:30–12:00, or by appointment (just see whether I am available)

Homework assignments http://people.math.sc.edu/schep/homework703-2015.html

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

Tentative test dates: Test 1, Tuesday October 7; Test 2, Thursday, November 19

HW: 15%. Note: homework is extremely important in this course! I strongly encourage cooperation on homework, but you should always write the solutions in your own words, i.e., if I detect literally copied solutions neither student will get credit for the solutions.

Date of Final Exam: Thursday, December 10 - 12:30 p.m.

Material to be covered not very closely: Chapters: 2, and 3 (mostly)

Attendance policy: A grade penalty can be invoked, if more than 10% of classes are missed. As I will not follow the text very closely, it is very important to miss the least possible number of classes.

Objectives: The objective of this course is two-fold. On the one hand if you are successful you will be able to answer correctly the questions on the Qualifying Examination dealing with metric spaces, compactness and complex analysis. On the other hand the course is supposed to provide you with a solid foundation for any other course in Analysis. In particular it will prepare you for Math 704 the sequel to this course, where we will study Lebesgue measure and integration and which constitutes the main portion of the qualifying exam.

Cellphone policy: Please turn your phone off or on silent mode while in class.