

Math 703 Course Outline

Fall 2008
TTH 2:00-3:15

Texts: *Analysis II*
by: Terence Tao
and *Introductory Complex Analysis*
by: Richard A. Silverman

Professor: Anton R. Schep

Office: LeConte 300C

Webpage: <http://www.math.sc.edu/~schep/math703-2008.html>

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Office hours: MW 10:30–12:00, or by appointment (just see whether I am available)

Homework assignments <http://www.math.sc.edu/~schep/homework703-2008.html>

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

Tentative test dates: Test 1, Tuesday September 30; Test 2, Tuesday, November 18

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: Tuesday, December 9 - 2:00 p.m.

Material to be covered not very closely: Chapters: 12, 13, 14 of Tao, and chapters 1, 3, 6, 7-12 of Silverman

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 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.