

Math 4317
Analysis I
Spring 2002
A. D. Andrew

Procedures

1. Material to be covered. This is a course in Real Analysis. The principal topics covered include the real number system and its topology, functions and their properties, sequences and series of real numbers, sequences and series of functions, power series, and Fourier series. We will cover most of the material in sections 1 through 24 and 34 through 38 of the text *Elements of Real Analysis* by Robert G. Bartle.

2. Office hours. My office is 164 Skiles and office hours will be Mondays and Wednesdays from 9:30 – 10:30 and Fridays from 10:30 – 11:30, or by appointment. I may be reached by phone at 404-894-2719 and my e-mail address is andrew@math.gatech.edu. All of this information is also available on the web at www.math.gatech.edu/~andrew.

3. Tests and assignments. Homework will be assigned each week and will be due on Friday. A proper subset of each assignment will be graded. You may consult with each other on the homework assignments, and you may ask me questions about them, but you must write up and submit your own work. Please be neat, clear, and write in complete sentences.

In addition, there will be two project assignments. You may work in pairs on the project assignments. Each project consists of a sequence of exercises directed towards a significant result, and projects may be found at the end of many sections in the text. Due dates for projects are

Project 1	1 March	Select one from section 6, 8, 10, 15, 16, 20
Project 2	12 April	Select one from section 22, 23, 37

There will be three hour tests and one final examination. Dates for the hour tests are

Hour Test 1	8 February
Hour Test 2	15 March
Hour Test 3	19 April

4. Grading. These various items will be weighted according to

Homework	10%
Projects	7.5% each
Hour Tests	15% each
Final Exam	30%

5. Honor code. Please review the Georgia Tech Honor Code. As noted above, you may discuss homework assignments with each other, but be sure the work you turn in is your own. You may work in pairs on project assignments. Examinations in this course will be closed book, but you may bring one 8.5 “ x 11” sheet of notes to each examination. I have posted sample tests on my web site.