

MATH 6337 SYLLABUS

FALL 2007

- Course Number: Math 6337 A
- Course Name: Real Analysis I
- Lecture Time: TuTh 12:05-1:25 p.m.
- Lecture Room: Skiles 256
- Instructor: Dr. Christopher Heil
Office: Skiles 109
Office Phone: 404-894-9231
Email Address: heil@math.gatech.edu
Office Hours: ThTh 1:30-2:30 and by appointment
- Course Web Page: <http://www.math.gatech.edu/~heil>
- Contacting me: I encourage you to contact me by email. I try to check email daily and to respond to questions quickly. Please don't be afraid to set up other appointment times if you are having trouble getting in touch with me.
- Prerequisites: Math 4317, 4318 (Analysis I, II)
- Required Text: G. Folland
Real Analysis: Modern Techniques and their Applications, 2nd ed.
Errata: See Folland's web page at www.math.washington.edu
- Material: 1.1-1.5, 2.1-2.6, 3.1-3.5, plus additional notes
- Comparison Text: R. L. Wheeden and A. Zygmund,
Measure and Integral, Dekker 1977.
- Lecture Notes: Posted on class website.

Academic Dishonesty. All students are expected to comply with the Georgia Tech Honor Code. Any evidence of cheating or other violations of the Georgia Tech Honor Code will be submitted directly to the Dean of Students. The institute honor code is available at

http://www.deanofstudents.gatech.edu/integrity/policies/honor_code.php

Grading. We will have 8 homework assignments, two in-class exams, and one final exam, scored as follows.

8 Homeworks	15 points each
Exam 1	35 points
Exam 2	35 points
<u>Final Exam</u>	<u>60 points</u>
TOTAL	250 points

Letter grades will be based on your accumulated points at the end of the semester, according to standard 90%, 80%, 70%, 60% cutoffs (although I may adjust the cutoffs downward at the end of the semester, depending on class distribution):

225–250	A
200–224	B
175–199	C
150–174	D
0–149	F

At the end of the course, I'll evaluate the class distribution and decide if a curve is needed. I'll only curve *down* from the above cutoffs, not up!

Homework. Homeworks will be assigned approximately every week in which an exam is not scheduled, and will usually be due one week after they are handed out. Homeworks will consist of problems selected from the book or problems that I make up. A subset of these will be selected for grading.

Homeworks should be written on the front side of the page only, and must be stapled. LATE HOMEWORKS WILL NOT BE ACCEPTED.

You are allowed (and encouraged) to work together with other students on the homework, as long as you each INDEPENDENTLY WRITE UP YOUR OWN SOLUTIONS. You are also allowed (and encouraged) to ask me questions, although you should try to think about the problems before asking. I strongly encourage you to work extra problems from the book on your own.

Exams. The tentative dates for the exams are:

Exam 1	Tuesday, September 25 (in class)
Exam 2	Tuesday, October 30 (in class)
Final Exam	Wednesday, December 12, 8:00–10:50

The exams are closed-book and closed-notes, except that you will be allowed to bring one note sheet to each exam. The final is comprehensive.

Makeup exams are given only in extraordinary circumstances.