Math 4318  
Analysis II  
Spring 2000  
A. D. Andrew

Procedures

1. Material to be covered. This is a course in Real Analysis. The text is *Elements of Real Analysis* by Robert G. Bartle, and we will cover sections 25, 27 - 33, and 39 - 45. Specifically, we will discuss limits of functions, differentiability of functions of one real variable, Riemann-Stieltjes integration of functions of one variable, improper integrals and the analogies with infinite series, and differentiation and integration in $\mathbb{R}^p$.

2. Office hours. My office is 164 Skiles and office hours will be Tuesday 2:00 - 3:00, Wednesday 11:30 - 12:30, and Thursday 2:00 - 3:00, or by appointment. I may be reached by phone at 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 and will be due every other week on Thursday. 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.

There will be one project assignment. 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. For your project, please select one of

$$28\xi, 29\alpha, 29\beta, 29\gamma, 30\delta, 31\alpha, 33\alpha, 33\beta, 40\alpha, 41\alpha, 41\beta, 41\gamma, 44\alpha, 44\gamma, \text{ or } 45\alpha.$$  

You are to work independently on the project.

There will be two tests and one final examination. Dates for the tests and project are

<table>
<thead>
<tr>
<th>Test</th>
<th>Date</th>
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<tbody>
<tr>
<td>Test 1</td>
<td>8 February</td>
</tr>
<tr>
<td>Test 2</td>
<td>4 April</td>
</tr>
<tr>
<td>Project</td>
<td>6 April</td>
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4. Grading. These various items will be weighted according to

- Homework: 10%
- Project: 10%
- Tests: 22.5% each
- Final Exam: 35%

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 are to work independently on the project assignment. Examinations in this course will be open book.