

Mathematics 4317 (Real Analysis)  
Fall Semester 2007 - W. L. Green

1. **General Information.** This course meets for lectures on MWF from 1:05 until 1:55 PM in Lecture Room 3 of the Howey (Physics) Building. Please make sure you are properly registered and attending the section for which you are registered. (There is another section, taught by Prof. Bilyk, that meets on Tuesdays and Thursdays.) My office is in Room 134 of the Skiles Building, my office phone is 404-894-4312, and my e-mail address is green@math.gatech.edu. I have a web page, <http://www.math.gatech.edu/~green/>, that is also accessible from the School of Mathematics pages (through the links to Faculty pages). My office hours are Monday and Wednesday from 3:30 to 4:30 PM, or by appointment. I respond more rapidly to telephone messages than to e-mail.

2. **Material.** The text for this course is Robert Bartle's *The Elements of Real Analysis*, second edition. You should read sections 1 through 24 and 34-38, and read them as we take them up in class. For the first week, you should read sections 1 through 6.

3. **Homework and Examinations.** Homework will be assigned, and some of it will be collected and graded, provided we can find a grader for this class. (It is very likely that we will have a grader.) I strongly urge you to do all of the assigned problems. Please write neatly, clearly, and in complete sentences. There will be two 50-minute midterm examinations and a final examination. Tentative dates for these examinations are

September 26 (Wednesday)	Midterm
October 26 (Friday)	Midterm
December 14 (Friday)	Final

The midterms will be in the same room as the lectures, and the final examination will take place as scheduled by the Office of the Registrar and the School of Mathematics. Homework assignments will be posted on my web page.

**First day's homework assignment:** E, F, I, J and K from Section 1 and C, E, H, and J from Section 2. Please prepare 1F and 2E to be turned in for grading.

4. **Grading.** The midterm tests, homework average and final examination will be counted with the following weights.

Midterm Examinations	25%
Final Examination	35%
Homework (assuming a grader)	15%

I will grade the midterms and the final myself. If you have a question regarding the grading of a midterm, please return your paper to me without writing on it or altering it in any way, and explain your question on a separate piece of paper, **within one week of the date on which the midterm was returned.** You may see your final examination paper as soon as I have completed the grading.

Please be aware of the Institute's honor code and adhere scrupulously to a policy of academic honesty. If you wish to know whether some procedure is allowed, please ask me. Calculators **are** allowed (but are probably largely useless) on the work in this course, but wherever it is possible to do so, you should provide an exact answer rather than an approximation (e. g.,  $1/7$  rather than 0.14). All examinations are closed book, and without cooperation.