

## Math 347 D1 MWF 11 347 Altgeld Hall Class Organization Fall 2003

**Instructor:** Prof. Bruce Reznick, 243 Illini Hall, 333-4284, reznick@math.uiuc.edu. My phone has voice mail and I frequently check and reply to my email, including weekends. Office hours are by appointment. I take them seriously, and they can usually be arranged within 24 hours. You are also encouraged to ask me questions immediately before and during class. I'm terrible with names; don't take it personally.

In the past, this course has had an unmoderated newsgroup, but the University has eliminated support of newsgroups to save money. I understand that the computer science department is setting up a replacement system; if this works out, I will let you know.

This course has a webpage – <http://www.math.uiuc.edu/~reznick/math347.html>. (I'm older than the average HTML coder; your tolerance is appreciated.) This webpage will contain a "class diary", which will summarize what happens in each class period, as well as links to .pdf handouts. If you email me a course question, I will post your anonymized question and my reply on the web page, for the benefit of the entire class. It will be impossible for me to post exam solutions in advance.

**Text and Syllabus:** The text is *Elementary Analysis: The Theory of Calculus* by Kenneth A. Ross. The syllabus is the standard one and is distributed separately.

**Homework Policy:** Written homework will be assigned to be due weekly. Please staple or paper-clip your homework sheets (no folding over corners), and consider writing more than one draft. You are expected to spell correctly and write complete, grammatical sentences when possible in this and all your university assignments. Homework solutions will be distributed when the assignment is due. No late homework is accepted, but the lowest two homework scores (possibly zero) will be omitted in computing your homework average. In rare instances, you may be excused from an assignment, but the dropped scores are intended to cover ordinary illnesses, weddings, etc. **Collaboration in studying and working the homework is strongly encouraged! Collaboration without comprehension is a waste of time.** A phone and e-mail list will be distributed once the class stabilizes. It is my policy not to give specific homework help to individuals before an assignment is due. But if you ask a question in class or in email, I can further explain to *everybody* the mathematics which underlies your question.

Although Math 347 is an undergraduate course, it typically attracts some graduate students, and this can cause stress on both sides. (If forced to make a choice, I would rather bore the grad students than baffle the undergrads.) A typical homework assignment will contain 8 regular problems, arranged in roughly increasing order of difficulty, and 2 harder problems, which are intended for those grad students taking the course for 1.00U credit, rather than .75U. Of the first 8, 3 will be "odd" problems whose answers are in the back of the book. These are ungraded, though they may show up, slightly altered, on exams. The other 5 of the first 8 and the last 2 will be graded. The denominator for the homework grade will be "5", unless you are taking 1.00U, in which case it will be "7". Although the maximum score on an assignment is 100%, you should try to work as many problems as you can – partial credit will be given when earned. Some people find some harder problems fun, and you have nothing to lose in trying them. I grade the homework myself.

**Exam Policy:** There will be two Hour Exams, at roughly the six and twelve week points. We will decide later whether the exams will be in class or in the evening. All exams will be closed-book and closed-note, and will resemble the homeworks. The Final Exam is comprehensive, and somewhat harder than the Hour Exams. The Final must be held at the scheduled time, which is Monday, Dec. 15, from 8:00 – 11:00am.

**Grading Policy:** Keep in mind that I am grading your work, not you as a person. Each Hour Exam counts 25%, the Final Exam counts 50% and the Homework counts 20%. The lowest 20% is dropped. All grades are numerical. The highest possible grade cutoffs are: A/B – 90%, B/C – 80 %, C/D – 70%, D/F – 60%, by which I mean "A-/B+", etc. I will try to keep you posted on any curving as the semester progresses. (I reserve the right to curve differently for undergrads and grads.) There are two exceptions to the numerical grading: anyone who gets 96% on the Final gets an A and anyone who gets 75% on the Final will pass.

**Philosophy:** The purpose of this course is to introduce you to real analysis, one of the most fundamental parts of mathematics. Much of what we do will be designed to put the study of calculus on a firmer logical foundation. Education is not a zero-sum game when done correctly. I do not consider you my adversaries, and hope the feeling is mutual. Become an active participant in this course. Let it get under your skin and visit your dreams. These are serious steps towards becoming a mathematician.