

Math 347 C1 MWF 10 143 Altgeld Hall Class Organization (Revised) Fall 2001

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.

This course has an unmoderated newsgroup, called `uiuc.class.math347`. If I can remember, I will post all announcements made in class to the newsgroup. You are encouraged to use this newsgroup to ask (and answer) course-related questions. I will monitor the newsgroup, and post answers to your e-mail questions, after anonymizing the source.

This course has a webpage – <http://www.math.uiuc.edu/~reznick/classes/math347.html>. I'm older than the average HTML coder; your tolerance is appreciated. I plan to make all class handouts also available from the webpage. There will be a "class diary", which will summarize what happens in each class period. 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, in email, or on the newsgroup, 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, rather than .75U. Of the 8, 6 will be graded, and the other 2 will be "odd" problems with the answers in the back. The denominator for the homework grade will be "6", unless you are taking 1.00U, in which case it will be "8". 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.

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 Tuesday, Dec. 11, from 7:00 – 10:00pm.

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.

Changes: room, talking to me after class, composition of homework into graded and ungraded problems.