

FOUNDATIONS FOR HIGHER MATHEMATICS 310-310W

Having fun in a straitjacket

- Book: Mathematical Reasoning, *Writing and Proof*, second edition. Author: Ted Sundstrom. (See special instructions for Math 310W below.)
- Class: Classes are MWF 10-11AM in Cupples II 217 for 310 and Monday 11AM-12 noon, same room for 310W.
- Instructor: Mohan Kumar, Room 111 A, Cupples I. Phone: 5-36728; email: kumar at wustl dot edu and URL:
<http://www.math.wustl.edu/~kumar/courses/310-2009/foundations.html>
- Office Hours: Monday 2-3pm and Thursday 12-1pm or by appointment.
- Homework: weekly. I will try to post them during the weekend and they are due the Monday a week from then.
- If there is sufficient interest or if I feel that a large number of students have done inadequately in an assignment, I may post the answers to the assignments.
- Exams: There will be one midterm and a final. Midterm will be on 26, October (in class, one hour) and the final is on 15, December (2 hours).
- Grading: 85-100%-A; 70-84%-B; 50-69%-C; less than 50% will be an F. Homework will count for 40% of the final grade, Midterm will be 25% and the final for 35%.
- This is meant for people in 310W, though others might find it useful and all are welcome to attend. In 310W, all submitted work is expected to be done in the math typesetting system known as \TeX . I will give an introduction to this for a couple of weeks. Those of you who use a windows system can download the program free from 'Miktex'. (Be warned that it is a fairly large program and might take some time to download). You will also need a plain text editor (also known as

an ASCII editor). For example, you can not use MSword or similar programs. It will also be important to have some basic book on T_EX. For example, *More Math into L^AT_EX*, by G. Grätzer.

- Plan of the course: We plan to cover the first seven chapters of the book (may be with some back and forth). In the remaining time we may either do chapter 8 or construction of the number systems. I have not yet decided. I also plan to have a small a project where you will be expected to type a short mathematical monograph. Details will be posted later.