

Department of Mathematics
University of California
Riverside, CA 92521

Introduction to Set Theory - Math 144

Spring Quarter 2009

Instructor: Aviv Censor

Office: 232 Surge

Office Hours: MWF 10:10-11:00 am

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Lectures: MWF 8:10-9:00 am, Surge 172

Teaching Assistant: Michael Sill

Office: Surge 281

Office Hours: Friday 12:30-1:30 pm

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Discussion: Thursday 12:10-1:00 pm, Surge 172

Textbook: Paul R. Halmos, *Naive Set Theory*, Springer 1974

Syllabus: We will cover the following main topics:

- The language and basic axioms of set theory
- Relations and functions
- The natural numbers
- The axiom of choice and related statements
- Ordinal and Cardinal numbers

Midterm (25%): April 29, 2009 (during the lecture)

Final Exam (75%): June 6, 2009, 8:00-11:00 am

Homework: will be assigned each week.

Grades: You will receive a letter grade for the midterm. A grade of C- means that you have understood enough of the material in order to continue the course.

The final exam will comprehensively cover the material of the entire course. An "F" for the final exam automatically gives you an "F" for the course.

Grades, as well as other course materials, will be available on iLearn (<http://www.ilearn.ucr.edu>).

If you cannot come to the midterm or to the final exam, you have to make arrangements within the first two weeks of the course. We will only accept a very few reasons for not attending one of the exams. Those reasons are limited to: religious reasons, interviews for scholarships, and participation in intercollegiate sports.

Cheating will be taken very seriously. Every attempt to cheat will give you an automatic "F" for the course. You will not be allowed to drop the course, and your case will be forwarded to the student contact committee.

Course Attitude:

Math is like swimming or bicycle riding. You can't learn by watching someone else, even if that someone is *Michael Phelps* or *Lance Armstrong*, and even if you (think you) understand everything they are doing. You must jump into that pool or get on that bike by yourself. You need to practice a lot.

This is a challenging course and the pace is fast. So (take a deep breath): Come to **all** classes. Participate. Do homework. Ask questions. Take advantage of office hours. Work hard.

We want you to succeed. Furthermore, we are nice people :) and we will do our best to help you succeed. And (believe it or not), just like swimming or biking, math can be fun!

Course Policies:

- You are expected to attend all lectures and discussions in which you are enrolled.
- All Exams are with closed books and notes. You may **not** use any calculators, cell-phones, i-pods or any other electronic devices.
- Grades should be earned honestly. See above.

Remark: If you have a disability and the University has determined that you require special accommodations, please provide appropriate documentation by April 10, 2009 so that we may plan for you accordingly.