UC Irvine   MATH 140A   Fall 2025   MWF 10:00 - 10:50 AM, Room: DBH 1500

Course: The section number is 44620. We will be using Canvas as the main hub of the course, which will have homework assignments, lecture outlines, etc. This is an in-person course; attendance to lecture and discussion is required. Exams and quizzes must be taken in-person. First lecture: Friday, September 26.

Instructor: Dr. Jeff Viaclovsky, jviaclov@uci.edu. Office hours: Wednesdays 11AM–1PM in Rowland 440G, or by appointment.

Prerequisites: (MATH 2D or MATH H2D) and (MATH 3A or MATH H3A) and MATH 13. MATH 13 with a grade of C- or better.

Textbook: *Elementary analysis: the theory of calculus, second edition*, by Kenneth A. Ross.

Course Objectives: This course is an introduction to real analysis, the real numbers, sequences and series, and continuity. Many of these topics were introduced in previous courses, but in this course we will *prove* everything.

TA: Karl Zieber, zieberk@uci.edu. Office hours: Tuesdays 9–10AM in Rowland 540M, Wednesdays 1–2PM on Zoom, or by appointment.

Discussion Section: The section number is 44621 and meets on TuTh 10:00–10:50AM, in DBH 1500. First discussion: Tuesday, September 30.

Attendance Policy: In-person attendance of lectures and discussions is required.

Course Outline: Most of Chapters 1-3 in Ross will be covered.
- Homework: usually due on Thursdays, at the **beginning** of discussion. First assignment TBA. One homework will be dropped.
- Quizzes (in-discussion, 25 minutes each): Tuesday October 21 and Tuesday November 25.
- Midterm Exam (in-class, 50 minutes): Monday, November 10.
- Final Exam (2 hours): Monday, December 8, 10:30AM – 12:30PM. Location: DBH 1500.
- Grading: Homework: 20 %, Quizzes: 20%, Exam I: 20%, Final Exam: 40%. Letter grades are the standard cutoffs 90, 80, 70, 60.

Exam/Quiz/Homework Information: The midterm exam and final exam must be taken **in person**. Quizzes will be held in the discussion section, and must be taken **in person**. Homeworks will be due at the **beginning** of discussion. If you cannot attend discussion on the day the homework is due, please make arrangements directly with your TA to get it to them **before** that discussion. You will not be allowed to hand it in after the discussion, because the TA will be going over some solutions in that discussion.

Academic Honesty: Cheating will not be tolerated. All submitted work must be your own work. Exams and quizzes will be closed-book; do not use any notes, calculators, phones, etc., during the exams/quizzes. You are welcome to discuss homework with classmates, but submitted homework must be in your own words. **Warning:** we will be doing plagiarism searches to check for any solutions copied from internet sources, and we can also easily spot homework solutions copied directly from generative AI sources; **such solutions will not be accepted.**