Instructor: Luca Spolaor, Office: AP&M 5111

Office Hours: M 3-5PM

Textbook: *Elementary Analysis: The Theory of Calculus*, by K. A. Ross (The textbook is available for free to UCSD students on the campus network, and can be found by searching in UCSD’s Library Catalog)

Website of the course: My page and Gradescope

Email: lspolaor@ucsd.edu

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TA:

- Zhiyuan Jiang, z5jiang@ucsd.edu, office hours: W 4-6pm, APM 6436
- Zilu Ma, zim022@ucsd.edu, office hours: F 3-5pm, APM 1240

Discussion Sessions:

- Thursday, 5:00p-5:50p, Room: APM 7321
- Thursday, 6:00p-6:50p, Room: APM 7321

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Goal and Policy

Aim and content: We will cover the non-starred parts of chapters 1-3. The main topics will be: elementary set theory in the real line, sequences, series and continuity.

Lecture: Attending the lecture, though not mandatory, is a fundamental part of the course: you are responsible for the material presented in the lecture whether or not it is discussed in the textbook. You should expect questions on the exams that will test your understanding of concepts discussed in the lecture.

Reading: Reading the sections of the textbook corresponding to the assigned homework exercises is considered part of the homework assignment; you are responsible for material in the assigned reading whether or not it is discussed in the lecture. It will be expected that you read the assigned material in advance of each lecture.
Lecture notes: I will try to post my handwritten notes after each class on Canvas, however they will not be a substitute for the books. Moreover they may contain errors or typos, use them at your own risk.

Homeworks, Exams and Grades

Problem Sets: There will be 8 homeworks.

- Psets will be posted on Monday on my page and on Gradescope.
- Psets should be uploaded on Gradescope by the following Monday at 9pm.
- Late homeworks will not be accepted, however your cumulative homework grade will be based on the best 7 of the 8.
- You can work on the problems with your classmates, but you have to write down your own version. Copying from other’s solutions is not accepted and is considered cheating.
- You are responsible for your handwriting, typewritten solutions are encouraged.
- Consulting solutions to problem sets of previous semesters or internet solutions is considered cheating.
- A good portion of the midterms and exam will be based on the weekly problem sets. So it is extremely important for you to make sure that you understand each one of them.

- Grading of Psets: Each Pset will be worth 20 points. For every Pset 3 problems will be graded, chosen randomly. However writing a solution to a problem which will not be graded is worth 1 point. See the following two examples:

Example 1. Suppose Pset 1 contains 5 exercises and I randomly chose problems 1, 3, 4 to be graded. Then you get 2 points for writing the solutions to problems 2, 5 which will not be graded, and the remaining 18 points will be distributed equally among problems 1, 3, 4 (so 6 points each) which will be graded normally (and so you don’t get points for just doing them).

Example 2. Suppose Pset 3 contains 3 exercises, then all 3 will be graded and the sum of their points will be 20. In this case just doing them does not automatically award you any point.

Exams: There will be two one-hour in-class midterms and a Final exam, on the following dates:

- **Midterm 1:** Monday 01/27, 2:00p-2:50p, Room: PETER 104
- **Midterm 2:** Monday 02/23, 2:00p-2:50p, Room: PETER 104
- **Final:** Monday 3/16, 3:00-6:00p, Room:TBA

There is no make-up exam, however the grading system is as below.
Course grade: Your final score will be calculated as the maximum of the following two formulas:

- 20% Homework + 20% First Midterm + 20% Second Midterm + 40% Final Exam,
- 20% Homework + 20% Best Midterm Exam + 60% Final exam.

You need to get a passing grade in the Final Exam to pass the class.

Regrades and other infos:

- Homework and midterm exams will be available on Gradescope. If you wish to have your homework or exam regraded, you must do it on Gradescope on Monday between 3-5pm. Only regrade requests submitted on Gradescope will be considered.
- No notes, textbooks, calculators and electronic devices are allowed during exams.
- You are responsible for your grades being correct. If there is any inconsistency inform the TA immediately.

Academic Dishonesty: Academic dishonesty is considered a serious offense at UCSD. Students caught cheating will face an administrative sanction which may include suspension or expulsion from the university. See this website for more information.