

MATH 4650: Analysis I

Fall 2018

Instructor: Tony Shaheen

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Phone: (323) 343-2159 (It's much better to email me. I won't get any message you leave on my phone.)

Office Hours: to be announced in class.

Course Website: Follow the link from <http://www.calstatela.edu/research/ashahee/>

Lectures: Monday and Wednesday, 1:40pm—2:55pm, in SH 168.

Optional Textbook: There is no required textbook for the course. However, if you want to buy a book, here are two ones that I like:

- *Introduction to Real Analysis*, by Bartle and Sherbert.
- *Elements of Real Analysis*, by Gaskill and Narayanaswami.

Prerequisite: Math 2130 and Math 3450 with a minimum C grade.

Description: Real numbers and the completeness axiom; sequences; subsequences; monotone and Cauchy sequences; limits of sequences and functions; continuous functions; uniform continuity; open and closed sets in the reals; compact sets.

Student learning outcomes: Students who successfully complete this course will: understand the definitions, calculations, and theorems presented in the course; be able to prove theorems about the objects presented in the course; be able to make calculations using the objects presented in the course.

Grading: Your grade will be based on two tests and a cumulative final. The tests will be weighted as follows: 30% test 1, 30% test 2, 40% final.

Homework: Homework will be assigned, but not collected. The homework problems will be posted on the course website. I will also post solutions to the homework.

Exams: There are two tests and a final. All tests are in the regular classroom. The tentative dates and times of the exams are as follows.

Test 1: Wednesday, October 3.

Test 2: Wednesday, November 7.

Final: Wednesday, December 12, 12pm—2pm (note the time).

ADA statement: Reasonable accommodation will be provided to any student who is registered with the Office of Students with Disabilities and requests needed accommodation. Please let me know in the first week of class if you will be taking tests at the OSD office.

Academic honesty statement: Students are expected to do their own work. Copying the work of others, cheating on exams, and similar violations will be reported to the University Discipline Officer, who has the authority to take disciplinary actions against students who violate the standards of academic honesty.

Student responsibilities: Students are responsible for being aware of all announcements that are made in class, such as changes in exam dates, due dates of homework and papers, and cancellation of class due to instructor's absence. Students are responsible for announcements made on days that they are absent.

Students must check their CSULA email account regularly for information from the instructor and the Department. Failure to do so may result in missed deadlines or other consequences that might adversely affect students. Note that you can forward this email account to any other account of your choosing.