

## AMAT312(Z) Basic Analysis (Spring 2023)

**Textbook:** Analysis with an introduction to proof, by Steven R. Lay (5e)

**Instructor:** Ron Yang,

**Lecture:** TuThr 10:30-11:50pm at Humanity 111.

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**Office Hours:** TuThr 9-10am, CK337

**Course Objectives:** This course is a deeper study of some fundamental elements in Calculus such as real numbers, continuity, differentiation and integration. Students are required to remember and understand most theorems as well as their proofs. Proving theorems and constructing examples will be an important part of training. The best learning strategy is PREVIEW, LISTEN, REVIEW and HW.

**Homework:** Homework is assigned at each class and it will be collected for grading.

**Test:** There will be a midterm exam and a final exam. Exam problems will be similar to that in the HW. Midterm will take place sometime in the middle of March. The exact date will be announced a week in advance. The final exam time is according to the university's official schedule.

**Percentage:** HW 30%, midterm exam 30%, final exam 40%.

**Grading:** A: 90-100, B: 80-89, C: 70-79, D: 60-69, E: 0-59.

**Absence policies:** Students should attend each class and turn in assignments on time. Missing more than 1/4 of the assignments in a semester will result in a failing grade. For medical excuses, please discuss with the instructor in advance. For absence due to religious observance, please refer to New York State Education Law (Section 224-A).

**Academic Integrity:** Copying from each other or from an online source are not allowed during quizzes and exams. Cheating is strictly forbidden. Please read academic integrity regulations at [http://www.albany.edu/undergraduate\\_bulletin/regulations.html](http://www.albany.edu/undergraduate_bulletin/regulations.html).