

MAA4211 (25633) Real Analysis and Adv Calc 1
MWF Period 4 (10:40am - 11:30am) Room: Little 223

Instructor: Cheng Yu, chengyu@ufl.edu

Office Hours: MF 5 periods or by appointment.

Canvas Messages: Check your emails often so that you do not miss any important announcements.

Prerequisites: A rigorous treatment of concepts and tools learned in Calculus 1, Calculus 2, and/or precalculus.

Textbooks: Robert G. Bartle and Donald R. Sherbert, Introduction to Real Analysis, 4th edition (2011).

Description: This course is designed for any undergraduate students in Mathematics. In this course, we will discuss much of first 9 chapters in the textbook. In particular, we will cover the following sections:

- a.sections 1.1-1.3,
- b.sections 2.1-2.5.
- c.sections 3.1-3.5,3.7.
- d.sections 4.1-4.2.
- e.sections 5.1,5.3-5.6.
- f.sections 6.1-6.4.
- g. sections 7.1-7.3,7.5.
- h.sections 8.1-8.4.
- i.sections 9.1,9.2-9.4.

Homework assignments: There will be several homework assignments. Please do all homework problems independently. I will grade five of them.

Exams: No use of calculators, or books will be allowed during any tests. No makeups WITHOUT medical documentation. There will be four exams as follows

- Exam 1: 9/19, Monday.
- Exam 2: 10/10, Monday.
- Exam 3: 11/7, Monday.
- Exam 4: 12/7, Wednesday.

Grade Policy: There will be 5 homework assignments, each one is 4 percent. There are 4 exams, each exam is 20 percent. The class participation will be considered in borderline grades. The grade scale is as follows:

A : [90, 100].

B+:[85, 89).

B : [80, 85).

B-:[77, 80).

C+:[75, 77).

C : [70, 75).

C-:[68, 70).

D : [60, 68).

F : [0, 60).

Students with Disabilities: Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, www.dso.ufl.edu/drc/) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Diversity and inclusion: I am committed to diversity and inclusion of all students in this course. I acknowledge, respect, and value the diverse nature, background and perspective of students and believe that it furthers academic achievements. It is my intent to present materials and activities that are respectful of diversity: race, color, creed, gender, gender identity, sexual orientation, age, religious status, national origin, ethnicity, disability, socioeconomic status, and any other distinguishing qualities.