Course Description: This is a course on real analysis, which is the theory behind calculus. The content of the course includes the details behind the real number, sequences, continuity, differentiation, and integration.

There will be an emphasis on understanding and explaining mathematical concepts in a logical and rigorous manner. In particular, we will focus on writing clear and mathematically correct proofs.

Canvas site: Our course webpage will be through Canvas: https://utah.instructure.com/courses/601812 Throughout the semester, assignments, solutions to quizzes and assignments, and daily updates will be posted to this page.

Text: Foundations of Analysis by Joseph L. Taylor

Prerequisites: a “C” or higher in (Math 2210, 1260, 1280, 1321, or 3140) and (Math 2200, 2270, 2250)

Homework: Weekly problem sets will be posted on Canvas. All assignments will be submitted online in the Gradescope platform, which is accessible through our Canvas site.

While you are encouraged to discuss the assignments with other students in the class and with me at office hours, the final write-up should be written on your own.

Grading: Grades in this course will be based on weekly homework (20%), quizzes and worksheets (15 %), midterm 1 (15%), midterm 2 (20 %), and a final exam (30 %). The lowest homework and quiz grade will be dropped.

Generally speaking, late homework will not be accepted and quizzes cannot be made up. In unavoidable circumstance, contact me. Such situations will be dealt with on a case by case basis.

ADA Statement: The American with Disabilities Act requires that reasonable accommodations be provided for students with physical, sensory, cognitive, systemic, learning, and psychiatric disabilities. Please contact me at the beginning of the semester to discuss any such accommodations for the course.

Safety: The University of Utah values the safety of all campus community members. To report suspicious activity or to request a courtesy escort, call campus police at 801-585-COPS (801-585-2677). You will receive important emergency alerts and safety messages regarding campus safety via text message. For more information visit safeu.utah.edu.
Math 3210 Sec. 3  MWF 8:05am–9:25am, Room: JTB 120.

1/6  M  §1.1
1/8  W  §1.2
1/10 F  §1.3

1/13 M  §1.4
1/15 W  §1.5  HW 1 due
1/17 F  §1.5

*Numbers with § in front of them refer to sections of Foundations of Analysis by Joseph L. Taylor.

**All future dates in the schedule are tentative. This schedule will be updated throughout the semester and available in the Files section on Canvas.

Exam Dates

- Midterm 1 - Friday, February 14th (in class)
- Midterm 2 - Friday, April 3rd (in class)
- Final Exam - Wednesday, April 29th 8:00 – 10:00 am

Other Important Dates

- 1/17 - last day to add, drop, elect CR/NC
- 3/6 - last day to withdraw

Office Hour Doodle: https://doodle.com/poll/im428ztimn8vx4xb
Course Survey: https://forms.gle/GJHSMpb4Bw9sCzCL8