

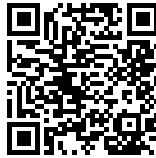
Math 3371: Real Analysis
Fall 2022
TF 2-2:50, W 3-3:50, Bannow 334

Instructor Chris Staecker
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Phone: x3323
Office: Bannow 16
Office Hours: TF 10-11, W 1:30-3.
All office hours are in my office, or on zoom: <https://fairfield.zoom.us/j/5514910533>

Textbook Abbott, *Understanding Analysis*, second edition

Final Exam Tuesday Dec 20, 3PM

Course Website <http://faculty.fairfield.edu/cstaecker/courses/2022f3371/>



Course Content

This course examines the set of real numbers as a complete, ordered, archimedean field; \mathbb{R} as a linear vector space equipped with inner product and norm; metrics, particularly Euclidean, on \mathbb{R} , topological concepts: continuity, connectedness, and compactness; the intermediate value, extreme value, monotone convergence, Bolzano/Weierstrass and Heine/Borel theorems; convergence and uniform convergence of sequences of continuous functions; differentiation (maybe).

Exams

There will be 2 midterm exams, completed in-person during regularly scheduled class time on October 14, and November 18. Exam makeups or rescheduling will be permitted only in extreme circumstances.

Students will not use calculators or any other electronic gadgetry during exams.

The final exam will be cumulative, but the midterm exams will not be.

Homework

Homework will be due roughly once per week on Wednesday, collected on Gradescope.com. Assignments will be posted at the class website.

Online submission

No assignments or tests will be submitted on paper. All work will be submitted online at Gradescope.com. Students will take phone pictures of their work and submit it to Gradescope.

Grading ratios

The grading is in two categories, in these ratios:

Homework	65%	
Exams	35%	(10%+10%+15%)

Office hours

The Professor regards visits to office hours as part of the instruction for this course. Responsible students in this course are expected to visit the Professor occasionally for help with homework and other class material. Class assignments are meant to stretch the abilities of the students, and the Professor expects even the best students to benefit from individual discussion. Students are encouraged to come in small groups if they don't want to come alone.

Protractors???

Protractors will not be required for this course.