

Math 230B – Real Analysis

Spring 2019

Instructor: Dr. Corey Shanbrom

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Office: Brighton 125

Office Hours: Mon 3-4pm, Weds 2-3pm, Thurs 1-2pm, or by appointment.

Lectures: 4-5:15pm, Mondays in SQU 128 and Wednesdays in BRH 113.

Prerequisites: Math 230A

Text: Principles of Mathematical Analysis, by Walter Rudin, 3rd ed. You should expect to spend large amounts of time reading this book slowly and carefully, while taking notes, working computations, and recording questions. We will cover Chapters 5-7, and maybe parts of Chapter 11.

Grading: Two midterms worth 25% each and one final worth 50%. Letter grades will be determined by a curve at the instructor's discretion.

Exams: Midterm dates will be announced at least one week in advance. The comprehensive final exam will be held Wednesday, May 15, 3-5pm. Make-up exams allowed only with prior permission or in case of documented emergency. No notes, books, electronic devices, or bathroom breaks will be permitted during any exam.

Homework: Homework will typically be assigned, collected, and returned weekly. The purpose is for you to receive feedback on your writing and solutions. Not all assigned problems will receive feedback. Working with classmates is encouraged, but you should write up your own solutions. Typesetting your homework in LaTeX is also encouraged. While homework will not affect your course grade, working these problems is the best way for you to prepare for the course exams, and eventually, the comprehensive exams. It also helps me communicate my values and expectations.

Catalog Description: Continuation of Math 230A with topics selected from: Theory of the integral, including Riemann, Riemann Stieltjes, and Lebesgue integrals.

Remarks: If you have a disability and require accommodations, you need to provide disability documentation to SSWD, Lassen Hall 1008, and discuss your needs with me as soon as possible.

Cheating of any type will result in disciplinary action and an automatic fail. If you are unsure what constitutes cheating, please see Sac State's Academic Honesty Policy; I have provided a link on SacCT.

This syllabus is subject to change.