

MT322 Analysis II
Spring 2014
332 Cushing MWF1

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About the course

This is a followup to MT321, Analysis I. Building on that material, we will cover integral calculus (Riemann and Riemann-Stieltjes integrals), sequences of functions (including uniform convergence of these), the Stone-Weierstrass theorem, power series, exponential and logarithmic functions. Time permitting, we will look at further topics, such as Fourier series or Lebesgue integration.

Text

The text we'll continue to use is *Principles of Mathematical Analysis*, third edition, by Walter Rudin.

Prerequisite

MT321 is the prerequisite.

Office and office hours

My office is **365 Carney; 617-552-3769**; email (chambers@bc.edu) is probably the most reliable method of reaching me. My office hours are TBA and by appointment.

Homework

Homework will be assigned and collected regularly (roughly weekly). I will return correct solutions with your papers and you should look over any mistakes and make sure you understand the solutions. Submissions must be typeset in \LaTeX . If you are having trouble with the homework problems, I'm available for assistance and hints. You are also allowed to discuss the problems with other students, but **you alone are to write up your work**; discussion with other students is simply to understand the concepts and techniques so that you can solve the problems. **Papers containing transparent copying will be returned with zero credit.** Late homework will generally not be accepted. University procedures will be followed in integrity cases: see www.bc.edu/integrity for these.

Exams

There will be two semester exams and a cumulative final. You are only allowed a make-up for a missed exam for a serious reason. If you must miss one, please clear it with me beforehand. Tentative dates are:

- Exam 1: Monday, **February 17**;
- Exam 2: Friday, **April 4**;
- Final: Wednesday, **May 7, 12:30 p.m.**

Grades

Semester grades will be based on homework (20%), semester exams (25% each), and final exam (30%).

Disabilities

If you are a student with a documented learning disability seeking accommodations in this course, please contact the Connors Family Learning Center (617-552-8093); regarding all other types of disabilities, please contact the Disability Services Office (617-552- 3470).