

Math 734: Algebraic Topology

Spring 2024

Instructor	Boyu Zhang (bzh@umd.edu)
Lectures	Tue Th 12:30 – 1:45 pm, MTH 1311
Office	Kirwan Hall 4418

Textbook

Algebraic Topology by Hatcher

Content

We will review Chapter 2 and cover Chapters 3-4.

Exams and assignments

There will be one take-home midterm and one take-home final. Assignments will be given every 2 weeks.

Graduate students can replace the homework assignments by writing of an expository article on an advanced topic. Possible topics include but are not limited to: the Leray-Hirsch theorem, the Serre spectral sequence, characteristic classes, cohomology operators, and computations of (rational) homotopy groups. **If you choose to submit an expository article instead of the homework assignments, you must let me know before the due date of the first assignment and discuss the topic with me before the midterm exam.**

Grading

The final course grade will be determined as follows

40%	homework assignments (or expository writing for graduate students)
30%	midterm
30%	final