

# Math 344-1: Introduction to topology

Benjamin Antieau

Winter 2026

**When:** 1400-1450 MWF.

**No class:** 1/5.

**Where:** Lunt Hall 104.

**Office hours:** 1500-1700 W in Lunt Hall 304.

**Discussion section:** 1400-1450 T in Annenberg Hall G29.

**TA:** Daniel Mallory.

**TA office hours:** 1130-1300 F in Locy Hall 209.

**Texts:** Munkres, *Topology*, 2nd ed.; course notes; Aaron Greicius' Kursobjekte; *The Stacks Project*, Chapter 5.

**Coursework:** attending lectures, reading, exercises, problem sheets.

**Practice exam:** Friday 2/6 in class.

**Graded exams:** none.

**Project.** Interested students will engage in a collective endeavor to create a database of finite topological spaces.

**Goal.** Each student will work to become fluent in the language, theorems, proofs, and ideas of point-set topology.

**Suggested process.** Attend lectures, read, flip through books in the library (514), write notes, solve exercises, write solutions to problem sets, review notes, and devise new questions and examples.

**Evaluation.** Problem sets will be collected on a weekly basis and there will be an in-class practice exam to allow for working in a timed environment. Daniel Mallory or I will provide feedback on the problem sets. In addition, each student will submit three notes: an introductory note due in class stating why they are in the course and what they hope to get out, a mid-term process note due in class explaining the process they have been using to work, and a final self-evaluation note, due via email by 1700 on Tuesday 3/17. This final one-page document will explain the work they carried out during the quarter and give their assessment of the grade earned. Further guidelines will be given in class.

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