

# Math 60440: Basic Topology II, Spring 2019

**Instructor:** Prof. Andrew Putman

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**Webpage:** <http://www.nd.edu/~andyp/teaching/2010FallMath60440/>

**Class Hours:** MWF 10:30-11:20

**Classroom:** HH 125

**Office Hours:** MW 11:30-12:30, also by appointment (or just stop by if my door is open!)

**Topics:** The main topics of this course are homology, cohomology, and Poincaré duality, together with various geometric applications of these tools.

**Suggested Texts:** I will mostly follow *Algebraic Topology* by Hatcher, available for free at

<http://www.math.cornell.edu/~hatcher/AT/ATpage.html>

**Homework:** Homework will be assigned every Friday and will be due the following Friday by 5pm in my office (slide it under my door if I am not there). It will be posted to the course webpage by Friday evening. Collaboration is encouraged, but each student must independently write up his/her own solutions. Late homework is never accepted, but the lowest homework grade is dropped.

**Homework Grading:** I will grade a couple randomly chosen problems each week. The rest of your grade will be based on completeness (i.e. having a credible looking answer to each problem).

**Exams:** There will be one midterm exam and one final exam. The date of the midterm will be announced the second week of classes.

**Grading:**

25% Homework

35% Midterm

40% Final