

Math 60440: Basic Topology II, Spring 2020

Instructor: Prof. Andrew Putman

Office: Hurley 164

Email: andyp@nd.edu

Webpage: <http://www.nd.edu/~andyp/teaching/2020FallMath60440/>

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 Wednesday and will be due the following Wednesday by 5pm in my office (slide it under my door if I am not there). It will be posted to the course webpage by Wednesday 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: The grader 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