Math 60440: Basic Topology II, Spring 2024

Instructor: Prof. Andrew Putman
Office: Hurley 156A
Email: andyp@nd.edu
Webpage: http://www.nd.edu/~andyp/teaching/2024FallMath60440/
Class Hours: TTh 11:00-12:15
Classroom: HH 117
Office Hours: 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 sort of follow *Algebraic Topology* by Hatcher, available for free at

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

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