

Topology I

Math 434/542-101
MW 3:00-4:15, ILB 360

Instructor: Prof. Josh Barnard

Office: ILB 306

Phone: 460-6755

Office Hours: MW 9:30-10:15; MR 1:30-2:30

Course webpage:

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www.southalabama.edu/mathstat/personal_pages/jbarnard/F08-434-542/

Prerequisite: MA 335 (Advanced Calculus II)

Textbook: *Basic Topology*, by M.A. Armstrong (Springer 1983) [n.b.: The Springer edition is essentially identical to the McGraw-Hill edition published in 1979.]

Course Description: An introduction to topology with emphasis on the geometric aspects of the subject. Topics covered include surfaces, topological spaces, open and closed sets, continuity, compactness, connectedness, product spaces, and identification and quotient spaces.

Announcements and Handouts: The course webpage has an announcement section and a handout section. Both of these should be checked regularly, and you are responsible for any information found there. In particular, the requirements and policies for this course may be modified as circumstances dictate; such changes will be provided to students in class and noted on the webpage.

Schedule: A course schedule is posted online, and will be updated as the semester progresses. You should read the indicated sections of the book (or handouts, as appropriate) before the relevant class. You should also read through it again before beginning work on the homework, which is also posted on the schedule.

Homework: Homework problems will be assigned regularly in class, and also posted online. It will be collected every week, usually on Wednesday at the beginning of class. You are welcome to work together on the homework and ask me for hints, but you should write up each assignment yourself.

Tests: There will be two midterm tests. The first will be given in class; the second will be a take-home test. The dates of the tests will be announced in class and posted online at least one week in advance.

Presentation: Each student will give a final presentation accompanied by a written report. Details will be discussed in class.

Grading: Grades will be determined according to the following:

Homework — 25%; Midterms — 25% each; Final Presentation — 25%

Policies: Calculators are not required for this course. If you have any questions or problems, you are encouraged to come by my office during office hours, or make an appointment to come by some other time. Email is the best way to contact me. If you have a specific disability that qualifies you for academic accommodations, please

notify me and provide certification from the Office of Special Student Services. This office is directed by Ms. Bernita Pulmas and is located in the Student Center, Room 270, Phone 460-7212. Students are assumed to be familiar with the current Academic Misconduct Code, to which we will strictly adhere.