

MATH 501: GENERAL TOPOLOGY I. SPRING 2017

Course Information

Instructor: Dr. Erwin Miña-Díaz Office: Hume Hall 317 Office hours: M. W. 9:30-11:00 AM.
Email: minadiaz@olemiss.edu Telephone: (662) 915-1204
Text: James Munkres: Topology, 2nd Edition, Prentice Hall.
Time/Place: T. TH. 2:30-3:45 PM, Hume Hall 331

Course description

This course is an introduction to the theory of topological spaces. We intend to cover the following basic topics: standard topological concepts (e.g. open and closed sets, closure, limit points, interior, boundary, convergence, metric spaces, uniform convergence, completeness), topological spaces, subspaces and product spaces, the Hausdorff condition, connected spaces, compact spaces, sequential compactness. We will quickly move over Chapters 1, then cover Chapters 2 and 3, and as much of Chapter 4 as possible.

Course learning objectives

The aim of the course is to introduce the students to the concepts and language of topology, which is so fundamental and universal in modern mathematics. The course will help the student develop logical thinking and the ability to apply concepts and theories learned in class to solve problems.

Course expectations

Since this is a 500 level course, there are different expectations for undergraduate and graduate students enrolled in the course. The difference will be in the content of the homework and tests, which for undergraduate students will be less demanding than for graduate students.

Homework, tests and final exam

Homework is assigned on Tuesdays and collected within a week. Homework counts 100 pts. There will be two tests (each 100 points) and a final exam (200 pts).

Test 1: Tuesday, February 21.

Test 2: Tuesday, April 4.

Final: Tuesday, May 9 at 4:00 PM.

Your grade will be determined according to the following scale:

A 94- 100% A- 90- 93% B+ 87-89% B 84- 86% B- 80- 83% C+ 77 - 79%
C 70- 76% D 60 - 69% F below 60%

An "I" grade will not be given without the permission of the Department of Mathematics.

Attendance, cheating, electronic devices, and academic needs

- Attendance is mandatory.
- Cheating on any exam, theft or attempted theft of exam questions, possession of exam questions prior to the time for examination, shall all be offenses subject to appropriate penalties.
- All cellular phones, pagers, and other electronic equipment must be turned off during the class period.
- It is the responsibility of any student with a disability who requests an accommodation to contact the Office of Student Disability Services (915-7128).

Deadlines

Friday, February 3 is the last day to register or add classes and the refund period ends. Friday, March 3 is the deadline for course withdrawals. After the course withdrawal deadline, courses dropped will be recorded on University records and the W grade will be recorded if the student is not failing the course at the time of withdrawal; otherwise the grade recorded will be F. After the course withdrawal deadline, a student may drop a course only in cases of extreme and unavoidable emergency as determined by the academic dean; dropping a course after the deadline will not be permitted because of dissatisfaction over an expected grade or because the student is changing his/her major.