



MATH 490: Introduction to Topology

Textbook: Introduction to Topology, Third Edition, Bert Mendelson

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Office hours: MTWRF 4:00 - 5:00

From the Catalog: Special studies for individuals or small seminar groups. Course content to be arranged with instructor and with approval of the department head.

Prerequisites: junior standing or higher and permission of the instructor.

Course Objectives:

The students taking this course will learn the basics of Topology. Metric spaces will be introduced with the concept of a metric generalizing distance in Euclidean space. Topological spaces will also be introduced with the concept of topology further generalizing the notion of a metric by viewing neighborhood as modeling distance. Connectedness and Compactness, two of the most important concepts in topology will be given special consideration as time permits.

SYLLABUS FOR SPRING 2003: MWF 2:00 - 2:50

Week	Monday	Wednesday	Friday
1	1.1 – 1.4	1.5 – 1.6	1.7 – 1.8
2	1.9 – 1.10	2.1 – 2.2	2.2 – 2.3
3	2.4	2.5	2.6
4	2.7	2.7 – 2.8	2.8
5	3.1 – 3.2	3.3	EXAM 1
6	3.4	3.5	3.6
7	3.7	3.8	3.9
8			
9	4.1 – 4.2	4.3	4.4
10	4.5	4.5	EXAM 2
11	4.6	4.6 – 4.7	4.7
12	4.8	5.1	5.2
13	5.3	5.3 – 5.4	5.4
14	5.5	5.5	EXAM 3
15	5.6	5.6 – 5.7	5.7

Final Exam: Wednesday, April 30, 3:00-5:00