

COURSE SYLLABUS

MATH 330: INTRODUCTION TO TOPOLOGY, FALL 2021

Instructor: Subhadip Chowdhury

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Office: Taylor 307

Lectures: Fridays 3:00-3:50 in Taylor 209

Textbook: Basic Topology by M. A. Armstrong

COURSE OVERVIEW

This course is an introduction to topology. Topics covered include Euler's theorem, topologies on sets, continuous functions, homeomorphisms, sequences and convergence, metric spaces, compactness, connectedness, path-connectedness, identification spaces, homotopy equivalences, the fundamental group, Brouwer's fixed-point theorem, classification of surfaces.

TENTATIVE SCHEDULE

Week 2	8/30/2021	Introduction, 1.1, 1.2
Week 3	9/6/2021	1.3, 1.4, 1.5, 1.6
Week 4	9/13/2021	2.1
Week 5	9/20/2021	2.2, 3.1, 3.2, skip 2.4
Week 6	9/27/2021	3.3, 3.4
Week 7	10/4/2021	Review, Catch up (maybe 2.4)
	10/11/2021	Fall Break
Week 8	10/18/2021	3.5, 3.6
Week 9	10/25/2021	4.1, 4.2, skip 4.3, skip 4.4
Week 10	11/1/2021	5.1
Week 11	11/8/2021	5.2
Week 12	11/15/2021	5.3
	11/22/2021	Thanksgiving Week
Week 13	11/29/2021	5.4
Week 14	12/6/2021	2.3, 5.5, 5.7, skip 5.6