

Syllabus

Topics in Topology I

Course Name	Course type (credit/hours)	전선(3/3)			Course code	
	Target students Division/major/grade	/			Opening semester	2018년 1학기
	Class time and classroom					
Reference to this course	Related basic courses					
	Recommended concurrent courses					
	Related advanced courses					
Instructor	Name (title/division)					
	Office Room Number		Office phone Number	3322	e-mail	schoi@ajou.ac.kr
	Office hours		Homepage address			
Teaching Assistant	Name (title/division)					
	Office Room Number		Office phone Number		e-mail	

1. Introduction

The goal of this class is to study modern topics in topology. In this semester, we will study the concepts of real toric spaces and their topological properties.

2. Course Objectives

3. Class types and activities

4. Teaching Method

대부분의 수업은 강의 형식으로 진행하며 수강생 각자에게 프로젝트 문제 하나씩 주어질 예정이다.

5. Knowledge and ability required for taking this course

6. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance			
midterm exam			
final exam			
quiz			
presentation			
discussion			
homework			
etc			

Midterm 40%
Finalterm 40%
Project 20%

7. Textbooks

Main/Sub	Title	Writer	Publisher	Publication year
	자체 제작 강의 노트			

8. Lecture Schedule

Week	Lecture contents	Lesson type	Remark
1	Introduction to real toric space	lecture	
2	Introduction to real toric space	lecture	
3	Polytope and simplicial complex	lecture	
4	Polytope and simplicial complex	lecture	
5	Combinatorial classification of real toric space	lecture	
6	Combinatorial classification of real toric space	lecture	
7	Combinatorial classification of real toric space	lecture	
8	Midterm	Test	
9	Fundamental group of real toric space	lecture	
10	Fundamental group of real toric space	lecture	
11	Homology of real toric space	lecture	
12	Homology of real toric space	lecture	
13	Cohomology of real toric space	lecture	
14	Cohomology of real toric space	lecture	
15	Project	lecture	
16	Final term	Test	

9. Others

이 과목은 학부 위상수학, 이산수학 및 대학원 대수적 위상수학을 수강한 학생에게 권장되는 과목입니다.