

Textbook:

Topology Second Edition by James R. Munkres, Pearson New International Edition

Reference:

Basic Topology by M. A. Armstrong, Undergraduate Texts in Mathematics, Springer-Verlag

Prerequisite: Linear Algebra, Advanced Calculus

Course Website: <https://moodle.ncku.edu.tw/>

Chapter 2 Topological Spaces and Continuous Functions	第一週	颱風停課	
	9/4, 9/6	Sec 12	Topological Spaces
	第二週	Sec 12	Topological Spaces
	9/11, 9/13	Sec 13	Basis for a Topology
	第三週	Sec 13	Basis for a Topology
	9/18, 9/20	Sec 16	The Subspace Topology
	第四週	Sec 16	The Subspace Topology
	9/25, 9/27	Sec 17	Closed Sets and Limit Points
		9/28 師生 11 月 11 日校慶運動會補假; 9/29 中秋節放假	
	第五週	Sec 17	Closed Sets and Limit Points
	10/2, 10/4	Sec 18	Continuous Functions
	第六週	10/9	調整放假
	10/9, 10/11	10/10	國慶日(放假)
		Sec 15	The Product Topology on $X \times Y$
第七週	Sec 20	The Metric Topology	
10/16, 10/18	Sec 22	The Quotient Topology	
第八週	Sec 22	The Quotient Topology	
10/23, 10/25	Sec 26	Compact Spaces	
Chapter 3 Connectedness and Compactness	第九週	Sec 26	Compact Spaces
	10/30, 11/1	Sec 27	Compact Subspaces of Real Lines
		Sec 23	Connected Spaces
第十週	Sec 24	Connected Subspaces of Real Lines	
11/6, 11/8	Sec 51	Homotopy of Paths	
Chapter 9 The Fundamental Group		Sec 51	Homotopy of Paths
	第十一週	Sec 52	The Fundamental Groups
	11/13, 11/15	Midterm Exam 11/13 (Monday) 19:10-21:00, 考試範圍 Sec 12-27 考試教室 3174	
	第十二週	Sec 53	Covering Spaces
11/20, 11/22			
第十三週	Sec 54	The Fundamental Group of the Circle	
11/27, 11/29			
第十四週	Sec 55	Retractions and Fixed Points	
12/4, 12/6			

	第十五週 12/11, 12/13	Sec 58	Deformation Retracts and Homotopy Type
	第十六週 12/18, 12/20	Sec 59	The Fundamental Group of S^n
	第十七週 12/25, 12/27	Sec 60	Fundamental Groups of Some Surfaces
	第十八週 1/1, 1/3	1/1 開國紀念日(放假)	
		Final Exam 1/2 (Tuesday) 19:10-21:00, 考試範圍 Sec 51-60 考試教室 3174	

Grading Scheme

期中考	40%
作業及平時表現	20%
期末考	40%

Course Hours

Lecture : Monday 13:10-15:00; Wednesday 14:10-15:00 in 數學系館 3174 教室

Contact with Teacher

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