

Textbook:

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

Reference:

Topology: a First Course by James R. Munkres, Prentice-Hall

Prerequisite: Linear Algebra, Advanced Calculus

Course Website: <http://www.math.ncku.edu.tw/~rchen/>

Chapter 2 Continuity	第一週 9/7	2.1	Open and Closed Sets
		9/9	中秋節放假
	第二週 9/14, 9/16	2.1	Open and Closed Sets
Chapter 3 Compactness and Connectedness	第三週 9/21, 9/23	2.2	Continuous Functions
		3.1	Closed Bounded Subsets of Euclidean Spaces
	3.2	The Heine-Borel Theorem	
	第四週 9/28, 9/30	3.3	Properties of Compact Spaces
		3.4	Product Spaces
第五週 10/5, 10/7	3.5	Connectedness	
	3.6	Joining Points by Paths	
Chapter 4 Identification Spaces	第六週 10/12, 10/14	4.1	Constructing a Möbius Strip
		4.2	The Identification Topology
	第七週 10/19, 10/21	4.2	The Identification Topology
Chapter 5 The Fundamental Group	第八週 10/26, 10/28	5.1	Homotopic Maps
	第九週 11/2, 11/4	5.2	Construction of the Fundamental Group
	第十週 11/9, 11/11	Midterm Exam 11/9 (Wednesday) 10:10-12:00, 考試範圍 Sec 2.1-3.6 考試教室 3174	
	第十一週 11/16, 11/18	5.2	Construction of the Fundamental Group
	第十二週 11/23, 11/25	5.3	Calculations
	第十三週 11/30, 12/2	5.3	Calculations
	第十四週 12/7, 12/9	5.3	Calculations
	第十五週 12/14, 12/16	5.4	Homotopy Type
	第十六週 12/21, 12/23	5.4	Homotopy Type
Chapter 6-7 Surfaces	第十七週 12/28, 12/30	6.1/7.3	Triangulation and Euler Characteristics

	第十八週 1/4, 1/6	Final Exam 1/4 (Wednesday) 10:10-12:00, 考試範圍 Sec 4.1-5.4 考試教室 3174
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#### Grading Scheme

期中考	40%
作業及平時表現	20%
期末考	40%

#### Course Hours

Lecture : Wednesday 10:10-12:00; Friday 9:10-10:00 in 數學系館 3174

#### Contact with Teacher

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