

中國文化大學 理工學院 大氣與地質科學系 必修科目表

115 學年度起入學新生實施

115 學年度起大學新生實施													
必修類別	科目名稱	規定學分	一年級		二年級		三年級		四年級		備註		
			上	下	上	下	上	下	上	下			
通識科目	校本課程	2	1					1					
	國文	4	2	2									
	外文：閱讀與聽講（一）	3	1.5	1.5							三選一		
	外文：閱讀與聽講（二）	3			1.5	1.5							
	跨域專長	12			6	6							
	人文學科領域	4	4	4									
	社會科學領域	4											
共同科目	體育	0	0	0	0	0							
通識及共同必修學分合計		32	8.5	7.5	7.5	7.5		1					
院必	(N246)人工智慧應用與規劃實務	3		3							三選一		
	(N247)淨零排放與綠色科技	3		3									
	(N248)前瞻科技	3		3									
專	(2021)微積分	4	2	2							院核心		
	(2026)普通物理學	3	3										
	(2019)普通化學	3		3									
業	(M970)科學閱讀與寫作	2	2										
	(M968)程式設計(1)	2	2										
	(M969)程式設計(2)	2		2									
	(9938)大氣科學概論	2	2										
	(9792)大氣測計學	2		2									
	(M282)普通地質學（一）	2	2										
	(M283)普通地質學（二）	2		2									
	(M294)應用數學(1)	3			3								
	(M295)應用數學(2)	3				3							
	(2070)流體力學	3			3								
必	(M971)遙測科學概論	2				2							
	(M972)地球環境資料分析與應用(1)	2				2							
	(M973)地球環境資料分析與應用(2)	2					2						
	大氣科學學群	(M974)大氣物理學(1)	3			3						至少選修1個學群	
		(M975)大氣物理學(2)	3				3						
		(M976)大氣動力學(1)	3					3					
		(M977)大氣動力學(2)	3						3				
		(M978)天氣學(1)	3					3					
		(M979)天氣學(2)	3						3				
	地質科學學群	(2041)礦物學	3			3							
(2044)岩石學		3				3							
(M980)岩礦實習		1				1							
(2045)構造地質學		3					3						
(C087)構造地質學實習		1					1						
(2048)野外地質學		2						2					
(2056)地層學		2						2					
(A350)地球物理學	3						3						
專業必修學分合計		60 學分											
專業必修學分		大氣科學學群		60	13	14	9	10	8	6	0	0	
總計		地質科學學群		60	13	14	9	11	6	7	0	0	

必修學分總計	大氣科學學群	92	21.5	21.5	16.5	17.5	8	7	0	0	
	地質科學學群	92	21.5	21.5	16.5	18.5	6	8	0	0	
最低畢業學分數		128 學分									
其他修業規定：											
全球競爭力檢定	通過全球競爭力檢定，依本校「學士班學生全球競爭力檢定實施辦法」辦理，詳細資訊請參考教務組網頁。 https://reg.pccu.edu.tw/										
倫理課程	參與「職業倫理」、「中華文化專題」，依本校「職業倫理教育實施要點」及「中華文化專題講座實施要點」辦理，詳細資訊請參考綜合業務組網頁。 https://cur.pccu.edu.tw/										
全人學習護照	參與全人學習護照各項學習活動達認證標準，依本校「全人學習護照實施辦法」辦理，詳細資訊請參考課外活動組網頁。 https://activity.pccu.edu.tw/										

Chinese Culture University, Required Courses List,
Department of Atmospheric and Geological Sciences, College of Natural Science and
Engineering

Effective for Students Enrolled in and from the 2026 Academic Year

Categories for Compulsory Courses	Course Title	Credits	1st Year		2nd Year		3rd Year		4th Year		Remark	
			1st semester (Sep)	2nd semester (Feb)	1st semester (Sep)	2nd semester (Feb)	1st semester (Sep)	2nd semester (Feb)	1st semester (Sep)	2nd semester (Feb)		
Required Courses												
General Required Courses	SCHOOL—BASED CURRICULUM	2	1					1				
	CHINESE	4	2	2								
	FOREIGN LANGUAGE READING AND CONVERSATION(1)	3	1.5	1.5							Choose 1 of 3 Courses	
	FOREIGN LANGUAGE READING AND CONVERSATION(2)	3			1.5	1.5						
	INTERDISCIPLINARY PROGRAM	12			6	6						
	ART AND HUMANITIES	4	4	4								
	SOCIAL SCIENCES	4										
Common Courses	PHYSICAL EDUCATION	0	0	0	0	0						
Total General and Common Courses Credits		32	8.5	7.5	7.5	7.5		1				
Required Courses by College	(N246) ARTIFICIAL INTELLIGENCE APPLICATIONS AND PLANNING PRACTICE	3		3							Choose 1 of 3	
	(N247) NET ZERO EMISSIONS AND GREEN TECHNOLOGIES	3		3								
	(N248)EMERGING TECHNOLOGIES	3		3								
Required Courses by Department	(2021) CALCULUS	4	2	2							Core Courses	
	(2026) GENERAL PHYSICS	3	3									
	(2019) GENERAL CHEMISTRY	3		3								
	(M970)SCIENTIFIC READING AND WRITING	2	2									
	(M968) COMPUTER PROGRAMMING (1)	2	2									
	(M969) COMPUTER PROGRAMMING (2)	2		2								
	(9938) INTRODUCTION TO ATMOSPHERIC SCIENCE	2	2									
	(9792)ATMOSPHERIC INSTRUMENTATION AND MEASUREMENT	2		2								
	(M282) GENERAL GEOLOGY(I)	2	2									
	(M283) GENERAL GEOLOGY(II)	2		2								
	(M294) APPLIED MATHEMATICS(1)	3			3							
	(M295) APPLIED MATHEMATICS(2)	3				3						
	(2070) FLUID DYNAMICS	3			3							
	(M971) INTRODUCTION TO REMOTE SENSING	2				2						
	(M972) DATA ANALYSIS AND APPLICATIONS IN EARTH AND ENVIRONMENTAL SCIENCES (1)	2				2						
	(M973) DATA ANALYSIS AND APPLICATIONS IN EARTH AND ENVIRONMENTAL SCIENCES (2)	2					2					
	Atmospheric Sciences	(M974) ATMOSPHERIC PHYSICS (1)	3			3						Choose 1 of 2 programs
		(M975) ATMOSPHERIC PHYSICS (2)	3				3					
		(M976) ATMOSPHERIC DYNAMICS (1)	3					3				
		(M977) ATMOSPHERIC DYNAMICS (2)	3						3			
(M978) SYNOPTIC METEOROLOGY (1)		3					3					
(M979) SYNOPTIC METEOROLOGY (2)		3						3				
Geological Science	(2041) MINERALOGY	3			3							
	(2044) PETROLOGY	3				3						
	(M980) PETROGRAPHIC AND MINERALOGICAL PRACTICE	1				1						
	(2045) STRUCTURAL GEOLOGY	3					3					

Categories for Compulsory Courses	Course Title	Credit Hours	1st Year		2nd Year		3rd Year		4th Year		Remark
			1st semester (Sep)	2nd semester (Feb)	1st semester (Sep)	2nd semester (Feb)	1st semester (Sep)	2nd semester (Feb)	1st semester (Sep)	2nd semester (Feb)	
	(C087) LAB. OF STRUCTURAL GEOLOGY	1					1				
	(2048) FIELD GEOLOGY	2						2			
	(2056) STRATIGRAPHY	2						2			
	(A350) GEOPHYSICS	3						3			
Total Credits of Required Subjects		60									
Total Credits of Required Subjects	Atmospheric Sciences	60	13	14	9	10	8	6	0	0	
	Geological Science	60	13	14	9	11	6	7	0	0	
Total Required Credits	Atmospheric Sciences	92	21.5	21.5	17.5	17.5	8	7	0	0	
	Geological Science	92	21.5	21.5	17.5	18.5	6	8	0	0	
Graduate Credits		128									
Other provisions of graduate requirements :											
Global competitiveness	Passing the "Implementation Measures for the Global Competitiveness Assessment of University Students" is mandatory for graduation. Visit the website of the Registration Section for more information.										
Professional Ethics/ Special Topics in Chinese Culture	According to the university's 'Implementation Guidelines for Professional Ethics Education' and 'Implementation Guidelines for Chinese Culture Topics Lectures,' students are required to participate in two-semester courses: 'Professional Ethics' and 'Chinese Culture Topics.' For detailed information, please refer to the website of the Curriculum Section: https://cur.pccu.edu.tw/										
Whole Person Learning Passport	To fulfill the Whole Person Learning Passport requirements, students must actively participate in various learning activities. These activities are organized in accordance with our university's guidelines for the Whole Person Learning Passport. For more detailed information, please visit the website of the Extracurricular Activities Section at https://activity.pccu.edu.tw/ ."										