

中國文化大學 理工學院 化學系 必修科目表

115學年度起入學新生實施

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			三選一
	國文	4	2	2							
	外文：閱讀與聽講（一）	3	1.5	1.5							
	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		0					
	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							
專業必修科目	(2019) 普通化學	6	3	3							院核心
	(2020) 普通化學實驗	2	1	1							
	(2021) 微積分	6	3	3							
	(2026) 普通物理學	6	3	3							
	(2027) 普通物理學實驗	2	1	1							
	(E412) 分析化學(一)	3			3						
	(E413) 分析化學(二)	3				3					
	(2147) 分析化學實驗	2			1	1					
	(E414) 有機化學(一)	3			3						
	(E415) 有機化學(二)	3				3					
	(2148) 有機化學實驗	2			1	1					
	(4883) 物理化學(一)	3			3						
	(4884) 物理化學(二)	3				3					
	(2163) 物理化學實驗	2					1	1			
	(2215) 儀器分析	3					3				
	(2216) 儀器分析實驗	1					1				
	(E416) 無機化學(一)	3					3				
	(E417) 無機化學(二)	3						3			
	(2038) 專題討論	2							2		
專 業 必 修 學 分 合 計		61	11	11-14	11	11	8	4	2	0	
必 修 學 分 總 計		93	19.5	18.5-21.5	18.5	18.5	8	5	2	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 Chemistry, College of National Science and Engineering

Effective for Students Enrolled in and from the 2026 Academic Year

Effective for Students Enrolled in and from the 2020 Academic Year											
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)	
Required Courses											
General Required Courses	CHINESE	4	2	2							Choose 1 of 3 Courses
	FOREIGN LANGUAGE READING AND CONVERSATION(1)	3	1.5	1.5							
	FOREIGN LANGUAGE READING AND CONVERSATION(2)	3			1.5	1.5					
	INTERDISCIPLINARY PROGRAM	12			6	6					
	ART AND HUMANITIES	4	4	4		0					
	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	(2019)General Chemistry	6	3	3							Core Courses
	(2020)General Chemistry Lab.	2	1	1							
	(2021)Calculus	6	3	3							
	(2026)General Physics	6	3	3							
	(2027)General Physics Lab.	2	1								
	(E412)Analytical Chemistry I	3			3						
	(E413)Analytical Chemistry II	3				3					
	(2147)Analytical Chemistry Lab.	2			1	1					
	(E414)Organic Chemistry I	3			3						
	(E415)Organic Chemistry II	3				3					
	(2148)Organic Chemistry Lab.	2			1	1					
	(4883)Physical Chemistry I	3			3						
	(4884)Physical Chemistry II	3				3					
	(2163)Physical Chemistry Lab.	2					1	1			
	(2215)Instrumental Analysis	3					3				
	(2216)Instrumental Analysis Lab.	1					1				
	(E416)Inorganic Chemistry I	3					3				
	(E417)Inorganic Chemistry II	3						3			
(2038)Seminar	2							2			
Total Credits of Required Subjects		61	11	11-14	11	11	8	4	2	0	
Total Required Credits		93	19.5	18.5-21.5	18.5	18.5	8	5	2	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. Section at https://reg.pccu.edu.tw/										
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/										

