中國文化大學 理工學院 化學工程與材料工程學系 必修科目表

114 學年度起入學新生實施

	114 學年度起入學新生實										
必修	A) 17 / 150	規定 一年級		手級		年級	三年級		四年級		備註
類別	科 目 名 稱	學分	上	下	上	下	上	下	上	下	証
	國文	4	2	2		'	1	'	上	<u>'</u>	
通	外文:閱讀與聽講(一)	3	1.5	1.5							五選
識	外文:閱讀與聽講(二)	3			1.5	1.5					一課程
43	跨域專長	12			6	6					7.5
科	人文學科領域	4		4							
目	社會科學領域自然科學與數學領域	4 2	4	4	2						
共同 科目	體育	0	0	0	0	0					
	及 共同必修學分合計	32	7.5	7.5	9.5	7.5					
專	(2021) 微積分	6	3	3							
	(2026) 普通物理學	4	2	2							
	(2019) 普通化學	6	3	3							
	(2020) 普通化學實驗	2	1	1							
	(6003) 工程數學	6			3	3					
業	(0682) 材料科學與工程	3			3						
	(6048) 質能均衡	3			3						
	(2025) 有機化學	4			2	2					
	(2148) 有機化學實驗	1			1						
	(2060) 物理化學	4			2	2					
必	(2163) 物理化學實驗	1				1					
	(H531) 科技論文閱讀與寫作	2				2					
	(3430) 輸送現象與單元操作I	3				3					
	(3433) 輸送現象與單元操作Ⅱ	3					3				
	(3434) 輸送現象與單元操作III	3						3			
修	(6026) 熱力學	3					3				
	(2215) 儀器分析	2					2				
	(I073) 高分子物理與化學	3						3			
	(1074) 無機材料	3						3			
	(6332) 化學反應工程	3						3			
科	(I072) 化工實驗	1							1		
	(C696) 專題研究與實作I	1						1			
	(C697) 專題研究與實作II	1							1		
	(2972) 程序控制	3							3		
	(8799) 材料實驗	1							1		
目	(6057) 程序設計	3							3		
專業	、	† 75	9	9	14	13	8	13	9	0	
必	修學分總言	107	16.5	16.5	23.5	20.5	8	13	9	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「大學部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 Chemical and Materials Engineering

Effective for Students Enrolled in and from the 2025 Academic Year

			Effe	ctive fo	r Stude	nts Enr	olled in	and fro	om the	2025 A	cademic Yea
Categories for		Credit	1st	Year	2nd Year		3rd Year		4th Year]]
Compulsory Courses	Course Title	Hours	1st semester (Sep)	2nd semester (Feb)	1st semester (Sep)	2nd semester (Feb)	1st semester (Sep)	2nd semester (Feb)	1st semester (Sep)	2nd semester (Feb)	Remark
Required Course	1	(1)	, ,	(1)	, ,	(1)	, ,	(1)	` '	l	
Troquirea Course	CHINESE	4	2	2							
	FOREIGN LANGUAGE										
	READING AND	3	1.5	1.5							Choose 1
	CONVERSATION(1)										
	FOREIGN LANGUAGE					1.5					of 5
General	READING AND	3			1.5						Courses
Required	CONVERSATION(2)										
Courses	INTERDISCIPLINARY PROGRAM	12			6	6					
	ART AND HUMANITIES	4									
	NATURAL SCIENCES		4	4							
	AND MATHEMATICS	2			2	ļ					
	SOCIAL SCIENCES	4									
Common											
Courses	PHYSICAL EDUCATION	0	0	0	0	0					
	nd Common Courses										
Credits	na Common Courses	32	7.5	7.5	9.5	7.5					
Credits	(2021) Calculus	6	3	3							
	(2021) Calculus (2026) General Physics	6	2								
	•	4		2							
	(2019) General Chemistry	6	3	3							
	(2020) General Chemistry	2	1	1							
	Laboratory. (6003) Engineering										
	Mathematics	6			3	3					
	(0682) Materials Science	2			2						
	and Engineering	3			3						
	(6048) Mass and Energy	3			3						
	Balance										
	(2025) Organic Chemistry	4			2	2					
	(2148) Organic Chemistry	1			1						
	Laboratory					_					
Dagwinad	(2060) Physical Chemistry	4			2	2					
Required	(2163) Physical Chemistry Laboratory	1				1					
Courses by	(H531) Technical Paper										
Department	Reading and Writing	2				2					
	(3430) Transport										
	Phenomena and Unit	3				3					
	Operations (I)										
	(3433) Transport	2					2				
	Phenomena and Unit Operations (II)	3					3				
	(3434) Transport										
	Phenomena and Unit	3						3			
	Operations (III)										
	(6026) Thermodynamics	3					3				
	(2215) Instrumental	2					2				
	Analysis										
	(I073) Polymer Physics and	3						3			
	Chemistry										
	(I074) Inorganic Materials	3						3			

Categories for		Credit	1st Year		2nd Year		3rd Year		4th Year			
Compulsory Courses	Course Title	Hours	1st semester (Sep)	2nd semester (Feb)	1st semester (Sep)	2nd semester (Feb)	1st semester (Sep)	2nd semester (Feb)	1st semester (Sep)	2nd semester (Feb)	Remark	
	(6332) Chemical Reaction Engineering	3						3				
	(I072) Chemical Engineering Laboratory	1							1			
	(C696) Research Project and Implementation (I)	1						1				
	(C697) Research Project and Implementation (II)	1							1			
	(2972) Process Control	3							3			
	(8799) Materials Laboratory	1							1			
(6057) Process Design		3	0	0	1.4	1.2	0	12	3	0		
Total Credits of	75	9	9 16.5	14 23.5	13	8	13	9	0			
Total Required Graduate Credi	107 128	16.5	10.3	23.3	20.5	8	13	9	U			
Other provisions												
Other provisions			0.011200	for th	o Glo	hal Ca	mnati	itivono	aa A aa	onna o	ent of	
Global	Passing the "Implementation Measures for the Global Competitiveness Assessment of University Students" is mandatory for graduation. Visit the website of the Registration											
competitiveness	Section for more information.											
Professional	According to the univers	sity's 'Im	pleme	ntatio	n Guio	delines	for P	rofess	ional l	Ethics		
Ethics/	Education' and 'Implementation Guidelines for Chinese Culture Topics Lectures,' students											
Special Topics	are required to participate in two-semester courses: 'Professional Ethics' and 'Chinese											
in	Culture Topics.' For detailed information, please refer to the website of the Curriculum											
Chinese Culture	Chinese Culture Section: https://cur.pccu.edu.tw/											
	To fulfill the Whole Person Learning Passport requirements, students must actively											
Whole Person	participate in various learning activities. These activities are organized in accordance with											
Learning												
Passport			site of	the E	xtracu	ırricula	ar Act	ivities	Section	on at		
https://activity.pccu.edu.tw/."												