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

113 學年度起入學新生實施

必修		規定 一年級			二年	年級	三年級		學年度起入學; 四年級		新生質施 備
	科 目 名 稱	//0: €			,				<u> </u>	1	註
類別		學分	上	下	上	下	上	下	上	下	
通	國文	4	2	2							T VE
	外文:閱讀與聽講(一)	3	1.5	1.5							五選一課
識	外文:閱讀與聽講(二)	3			1.5	1.5					程
科	跨域專長	12			6	6					
	人文學科領域 社會科學領域	4	4	4	2						
目	自然科學與數學領域	2									
共同	贈有	0	0	0	0	0					
科目	全民國防教育軍事訓練	0 32	0	7.5	0.5	7.5					
	及共同必修學分合計		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				
	(1073) 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	(1072) 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	1		
	(2972) 程序控制	3							3		
	(8799) 材料實驗	1							1		
目	(6057) 程序設計	3							3		
	(0037) 柱序設計 業 必 修 學 分 合 計	-	9	9	14	13	8	13	9	0	
必	<u>秦 必 修 字 刀 台 司</u> 修 學 分 總 計		16.5	16.5		20.5	8	13	9	0	
			1	10.3	23.3	20.3	O	13	<u> </u>	U	
其他修業規定:											

服務學習	參與服務學習,依本校「服務學習實施辦法」辦理,詳細資訊請參考綜合業務組網頁。https://cur.pccu.edu.tw/
	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 2024 Academic Year

Catagorias for				Year	2nd Year		1		1		denne rea
Categories for	Course Title	Credit		l				Year		Year	Remark
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)	Kemark
			(Зер)	(Feb)	(Зер)	(Feb)	(зер)	(Feb)	(зер)	(Feb)	
Required Cours	es		ı	1	Г	ı	1	ı	1	1	Т
	CHINESE	4	2	2							
	FOREIGN										
	LANGUAGE	3	1.5	1.5							
	READING AND]	1.5	1.5							Choose
	CONVERSATION(1)										1 of 5
	FOREIGN										Courses
General	LANGUAGE	3			1.5	1.5					Courses
Required	READING AND				1.5	1.5					
Courses	CONVERSATION(2)										
	INTERDISCIPLINARY	12			6	6					
	PROGRAM										
	ART AND	4									
	HUMANITIES NATURAL SCIENCES		4	4	2						
	AND MATHEMATICS	2	4								
	SOCIAL SCIENCES	4									
	PHYSICAL PHYSICAL	4									
	EDUCATION	0	0	0	0	0					
Common	ALL-OUT DEFENSE	0									
Courses	EDUCATION		0								
	MILITARY TRAINING										
Total Cananal	1										
Credits	and Common Courses	32	7.5	7.5	9.5	7.5					
	(2021) Calculus	6	3	3							
	· · · ·										
	(2026) General Physics	4	2	2							
	(2019) General	6	3	3							
	Chemistry										
	(2020) General	2	1	1							
	Chemistry Laboratory.	2	1	1							
Required	(6003) Engineering				_						
Courses by	Mathematics	6			3	3					
Department	(0682) Materials										
	Science and	3			3						
	Engineering										
	(6048) Mass and	3			3						
	Energy Balance										
	(2025) Organic	4			2	2					
	Chemistry										

Categories for		Credit Hours	1st Year		2nd Year		3rd Year		4th Year		
Compulsory Courses	Course Title		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
	(2148) Organic		(эср)	(FCB)		(FCB)	(эср)	(1 cb)	(эер)	(1 cb)	
	Chemistry Laboratory	1			1						
	(2060) Physical	4			2	2					
	Chemistry	4			2	2					
	(2163) Physical	1				1					
	Chemistry Laboratory	1				1					
	(H531) Technical Paper	2				2					
	Reading and Writing	2				2					
	(3430) Transport	3									
	Phenomena and Unit					3					
	Operations (I)										
	(3433) Transport Phenomena and Unit	2					2				
	Operations (II)	3					3				
	(3434) Transport										
	Phenomena and Unit	3						3			
	Operations (III)							3			
	(6026)										
	Thermodynamics	3					3				
	(2215) Instrumental	2					2				
	Analysis	2					2				
	(I073) Polymer Physics	3						3			
	and Chemistry										
	(I074) Inorganic	3						3			
	Materials (6332) Chemical										
	Reaction Engineering	3						3			
	(I072) Chemical										
	Engineering Laboratory	1							1		
	(C696) Research										
	Project and	1						1			
	Implementation (I)										
	(C697) Research										
	Project and	1							1		
	Implementation (II)										
	(2972) Process Control	3							3		
	(8799) Materials	1							1		
	Laboratory	1							1		

Categories for		Credit	1st	Year	2nd	Year	3rd	Year	4th	Year	Remark		
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)			
	(6057) Process Design	3							3				
Total Credits of Required Subjects		75	9	9	14	13	8	13	9	0			
Total Required	107	16.5	16.5	23.5	20.5	8	13	9	0				
Graduate Cred	its	128											
Other provisions	of graduate requirement	its:											
Service Learning Global competitiveness	Participation in service learning shall be conducted in accordance with the 'Implementation Measures for Service Learning' of the university. For detailed information, please refer to the website of the Curriculum Section at https://cur.pccu.edu.tw/ 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/."									ce with			