

中國文化大學 工學院 機械工程學系 必修科目表

112 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	國文	4	2	2							
	外文	4	2	2							六種語言選一種 (同正課)
	外語實習	2	1	1							
	跨域專長	12			6	6					
	人文學科領域	4									
共同科目	社會科學領域	4	2	2	4	2					
	自然科學與數學領域	2									
	體育	0	0	0	0	0					
共同科目	全民國防教育軍事訓練	0	0								
通識及共同必修學分合計		32	7	7	10	8					
專業必修科目	2021 微積分	6	3	3							
	2026 普通物理學	6	3	3							
	2027 普通物理實驗	2	1	1							
	6022 應用力學	4	2	2							
	6030 機械製造	3	3								
	6043 工廠實習	1	1								
	6003 工程數學	6			3	3					
	7173 電輔工程圖學	4			2	2					
	6026 熱力學	3			3						
	6029 材料力學	3			3						
	6002 電路學	2			2						
	2126 應用電子學	2				2					
	6023 機動學	3				3					
	6158 機械材料	3				3					
	E523 電工實驗	1				1					
	6031 機械設計原理	4					2	2			
	6058 電機機械	2					2				
	6118 自動控制	3					3				
	6025 流體力學	3					3				
	D986 機械材料實驗	1					1				
6033 熱傳學	3						3				
8800 熱流實驗	1						1				
C696 專題研究與實作 I	1						1				
C697 專題研究與實作 II	1							1			
專業必修學分合計		68	13	9	13	14	11	7	1		
必修學分總計		100	20	16	23	22	11	7	1		
最低畢業學分數		135 學分									
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/										
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 Mechanical Engineering

Effective for Students Enrolled in and from the 2023-2024 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							
	FOREIGN LANGUAGE	4	2	2							Choose 1 of 6 Courses
	FOREIGN LANGUAGE LISTENING AND SPEAKING DRILL	2	1	1							(Language matches the above chosen)
	INTERDISCIPLINARY PROGRAM	12			6	6					
	ART AND HUMANITIES	4									
	NATURAL SCIENCES AND MATHEMATICS	4	2	2	4	2					
	SOCIAL SCIENCES	2									
Common Courses	PHYSICAL EDUCATION	0	0	0	0	0					
	ALL-OUT DEFENSE EDUCATION										
	MILITARY TRAINING - INTERNATIONAL SITUATIONS	0	0								
Total General and Common Courses Credits		32	7	7	10	8					
Required Courses by Department	2021 Calculus	6	3	3							
	2026 General Physics	6	3	3							
	2027 General Physics LAB.	2	1	1							
	6022 Applied Mechanics	4	2	2							
	6030 Manufacturing Processes	3	3								
	6043 Machine Shop Practice	1	1								
	6003 Engineering Mathematics	6			3	3					
	7173 Computer Aided Engineering Graphics	4			2	2					
	6026 Thermodynamics	3			3						
	6029 Mechanics of Materials	3			3						
	6002 Electrical Circuit Theory	2			2						
	2126 Applied Electronics	2				2					
	6023 Kinematics	3				3					
	6158 Engineering Materials for Mechanical Engineers	3				3					
	E523 Electrical Engineering Laboratory	1				1					
	6031 Elements of Machine Design	4					2	2			
	6058 Electrical Machinery	2					2				
	6118 Automatic Control Theory	3					3				
	6025 Fluid Mechanics	3					3				
	D986 Materials Testing Laboratory for Mechanical Engineers	1					1				
6033 Heat Transfer	3						3				
8800 Thermal and Fluid Experiments	1						1				

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)	
	C696 Research Project and Implementation (I)	1						1			
	C697 Research Project and Implementation (II)	1							1		
Total Credits of Required Subjects		68	13	9	13	14	11	7	1		
Total Required Credits		100	20	16	23	22	11	7	1		
Graduate Credits		135									
Other provisions of graduate requirements :											
Service Learning	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 http://cur.pccu.edu.tw/ezfiles/7/1007/img/166/HL04.pdf										
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: http://cur.pccu.edu.tw/ezfiles/7/1007/img/166/HL30.pdf ."										
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/ ."										