

中國文化大學 理工學院 光電物理學系 必修科目表

115 學年度起入學新生實施

110 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			
	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							
專業必修科目	(2026)普通物理學	6	3	3							
	(2027)普通物理實驗	2	1	1							
	(2021)微積分	6	3	3							院核心
	(2019)普通化學	6	3	3							
	(2020)普通化學實驗	2	1	1							
	(2304)電磁學	3			3						
	(6002)電路學	2			2						
	(2364)書報討論	2			2						
	(2067)應用數學	6			3	3					
	(2134)近代物理	2				2					
	(2229)統計物理	2					2				
	(2622)量子物理	3					3				
	(3526)光電子學	3						3			
	(2135)光學	3					3				
	專業必修學分合計		51	11-14	11-14	10	5	8	3		
必修學分總計		83	19.5-22.5	18.5-21.5	17.5	12.5	8	4			
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 Optoelectric Physics, College of Natural Science and Engineering
Effective for Students Enrolled in and from the 2026 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	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		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	3		3							
Required Courses by Department	(2026) GENERAL PHYSICS	6	3	3							
	(2027) GENERAL PHYSICS LAB.	2	1	1							
	(2021) CALCULUS	6	3	3							Core Courses
	(2019) GENERAL CHEMISTRY	6	3	3							
	(2020) GENERAL CHEMISTRY LAB.	2	1	1							
	(2304) ELECTROMAGNETICS	3			3						
	(6002) ELECTRICAL CIRCUIT THEORY	2			2						
	(2364) SEMINAR	2			2						
	(2067) APPLIED MATHEMATICS	6			3	3					
	(2134) MODERN PHYSICS	2				2					
	(2229) STATISTICAL PHYSICS	2					2				
	(2622) QUANTUM PHYSICS	3					3				
	(3526) OPTICAL ELECTRONICS	3						3			
(2135) OPTICS	3					3					
Total Credits of Required Subjects		51	11-14	11-14	10	5	8	3			
Total Required Credits		83	19.5-22.5	18.5-21.5	17.5	12.5	8	4			
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/ ."										