

中國文化大學 理工學院 半導體暨 AI 科技國際學士學位學程 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				
	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	0									免修	
	人文學科領域	4	2	2	2	2						
	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		20	6.5	5.5	3.5	3.5		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	(2026)普通物理學	6	3	3								
	(2019)普通化學	6	3	3								
業 必 修 科 目	(2021)微積分	6	3	3							院核心	
	(7261)計算機概論	3		3								
	(6731)程式設計	3			3							
	(N344)高分子有機材料	3			3							
	(4615)電子學	3			3							
	(2516)電漿物理	3				3						
	(7272)人工智慧	3				3						
	(D760)光電概論	3					3					
	(8235)半導體製程與技術	3						3				
	(6658)半導體工程	3						3				
	(H658)微機電系統	3						3				
	(4901)多媒體系統	3					3					
	(7893)資料庫系統	3					3					
	(A506)圖樣辨識	3						3				
	專 業 必 修 學 分 合 計		60	9-12	12-15	9	6	9	12			
	必 修 學 分 總 計		80	15.5-18.5	17.5-20.5	12.5	9.5	9	13			
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,
Bachelor Program of Semiconductor and AI Technology, 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	0			0	0					N/A
	ART AND HUMANITIES	4	2	2	2	2					
	SOCIAL SCIENCES	4									
Common Courses	PHYSICAL EDUCATION	0	0	0	0	0					
Total General and Common Courses		20	6.5	5.5	3.5	3.5		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	(2026) GENERAL PHYSICS	6	3	3							
	(2019) GENERAL CHEMISTRY	6	3	3							
	(2021) CALCULUS	6	3	3							Core Courses
	(7261) INTRODUCTION TO COMPUTER SYSTEMS	3		3							
	(6731) PROGRAMMING	3			3						
	(N344) ORGANIC MACROMOLECULAR MATERIALS	3			3						
	(4615) ELECTRONICS	3			3						
	(2516) PLASMA PHYSICS	3				3					
	(7272) ARTIFICIAL INTELLIGENCE	3				3					
	(D760) INTRODUCTION TO OPTOELECTRONIC	3					3				
	(8235) SEMICONDUCTOR MANUFACTURING TECHNOLOGY	3						3			
	(6658) SEMICONDUCTOR ENGINEERING	3						3			
	(H658) MICRO-ELECTRO-MECHANICAL SYSTEM	3						3			
	(4901) MULTIMEDIA SYSTEMS	3					3				
	(7893) DATABASE SYSTEMS	3					3				
	(A506) PATTERN RECOGNITION	3						3			
Total Credits of Required Subjects		60	9-12	12-15	9	6	9	12			
Total Required Credits		80	15.5-18.5	17.5-20.5	12.5	9.5	9	13			

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)	
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/ ."										