

## 中國文化大學理學院 光電物理學系 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							六選一課程 (同正課)
	外語實習	2	1	1							
	跨域專長	12			6	6					
	人文學科領域	4									
	社會科學領域	4	4	4	2						
	自然科學與數學領域	2									
共同科目	體育	0	0	0	0	0					
	全民國防教育軍事訓練	0	0								
<b>通識及共同必修學分合計</b>		<b>32</b>	<b>9</b>	<b>9</b>	<b>8</b>	<b>6</b>					
專業必修科目	(8796)基礎科學概論	2	2								
	(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							
	(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					
	(I202)電磁學與電路學實驗	1			1						
	(I203)電子學實驗	1				1					
	(2622)量子物理	3					3				
	(3526)光電子學	3						3			
	(2135)光學	3					3				
(H120)光學與量子物理實驗	1					1					
(H121)光電實驗	1						1				
<b>專業必修學分合計</b>		<b>50</b>	<b>13</b>	<b>11</b>	<b>9</b>	<b>6</b>	<b>7</b>	<b>4</b>			
<b>必修學分總計</b>		<b>82</b>	<b>22</b>	<b>20</b>	<b>17</b>	<b>12</b>	<b>7</b>	<b>4</b>			
<b>最低畢業學分數</b>		<b>128 學分</b>									
<b>其他修業規定：</b>											
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。 <a href="https://cur.pccu.edu.tw/">https://cur.pccu.edu.tw/</a>										
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。 <a href="https://reg.pccu.edu.tw/">https://reg.pccu.edu.tw/</a>										
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。 <a href="https://cur.pccu.edu.tw/">https://cur.pccu.edu.tw/</a>										
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。 <a href="https://activity.pccu.edu.tw/">https://activity.pccu.edu.tw/</a>										

**Chinese Culture University, Required Courses List,  
Department of Optoelectric Physics, College of Science**

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)	
<b>Required Courses</b>											
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	4	4	2						
	SOCIAL SCIENCES	2									
Common Courses	PHYSICAL EDUCATION	0	0	0	0	0					
	ALL-OUT DEFENSE EDUCATION										
	MILITARY TRAINING - INTERNATIONAL SITUATIONS	0	0								
<b>Total General and Common Courses Credits</b>		<b>32</b>	<b>9</b>	<b>9</b>	<b>8</b>	<b>6</b>					
Required Courses by Department	(8796) FUNDAMENTALS OF SCIENCES	2	2								
	(2026) GENERAL PHYSICS	6	3	3							
	(2027) GENERAL PHYSICS LAB.	2	1	1							
	(2021) CALCULUS	6	3	3							
	(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					
	(I202) ELECTROMAGNETICS AND CIRCUIT EXPERIMENTS	1			1						
	(I203) ELECTRONIC EXPERIMENTS	1				1					
	(2622) QUANTUM PHYSICS	3					3				
	(3526) OPTICAL ELECTRONICS	3						3			
	(2135) OPTICS	3					3				
	(H120) OPTICS AND QUANTUM PHYSICS LAB	1					1				
	(H121) OPTOELECTRONICS LAB	1						1			
<b>Total Credits of Required Subjects</b>		<b>50</b>	<b>13</b>	<b>11</b>	<b>9</b>	<b>6</b>	<b>7</b>	<b>4</b>			
<b>Total Required Credits</b>		<b>82</b>	<b>22</b>	<b>20</b>	<b>17</b>	<b>12</b>	<b>7</b>	<b>4</b>			
<b>Graduate Credits</b>		128									
<b>Other provisions of graduate requirements :</b>											
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 <a href="https://cur.pccu.edu.tw/">https://cur.pccu.edu.tw/</a>										
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. <a href="https://reg.pccu.edu.tw/">https://reg.pccu.edu.tw/</a>										

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: <a href="https://activity.pccu.edu.tw/">https://activity.pccu.edu.tw/</a> ."
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 <a href="https://activity.pccu.edu.tw/">https://activity.pccu.edu.tw/</a> "