

**建國科技大學 進修部 111 學年度入學 四年制 電子工程系 開課表**  
**Curriculum for Department of Electrical Engineering, 2022, Division of Continuing Education, Chienkuo Technology University**

111803

	一年級Freshman				二年級Sophomore				三年級Junior				四年級Senior				合計 Total						
	科目 Course name	上學期 First		下學期 Second		科目 Course name	上學期 First		下學期 Second		科目 Course name	上學期 First		下學期 Second		科目 Course name	上學期 First		下學期 Second		學分 Credit	時數 Hour	
		學分	時數	學分	時數		學分	時數	學分	時數		學分	時數	學分	時數		學分	時數	學分	時數			
共同必修 Common Required	通識 General Education	國文 Chinese	2	2	2	2	職場英文 Workplace English	2	2			博雅(一) Liberal Arts (I)			2	2	公民社會 Civil Society	2	2				
		英文 English	2	2	2	2	藝術入門 The Gateway to Arts			2	2	歷史與人生 Historiography & Life			2	2	博雅(三) Liberal Arts (III)	2	2				
		運動與健康(一)(二) Exercise and Health (一)(二)	2	2	2	2						博雅(二) Liberal Arts (II)			2	2	博雅(四) Liberal Arts (IV)	2	2				
		<b>小計total</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>6</b>	<b>小計total</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>小計total</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>6</b>	<b>小計total</b>	<b>6</b>	<b>6</b>	<b>0</b>	<b>0</b>	<b>28</b>	<b>28</b>
	專業基礎 Professional Basics	基礎數學 Foundation mathematics	3	3			職場安全與衛生 Introduction to safety and sanitation	2	2														
		微積分 Calculus			3	3	職場倫理 The Ethics of Workplace			2	2												
		化學 Chemistry	2	2	2	2																	
		物理 Physics	3	3	3	3																	
		<b>小計total</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>小計total</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>小計total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>小計total</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>20</b>
	專業必修 Professional Required	計算機概論 Introduction to Computer Science	3	3			電路學(一) Electronic Circuits (1)	3	3			專題製作(一)(二) Graduation Projects(1)(2)	2	3	2	3	電子科技創意 Electronic-technology innovation	3	3				
數位邏輯與實習 Digital logic and experimental				3	4	電子學(一)(二) Electronics(1)(2)	3	3	3	3	光電工程概論 Introduction to Optoelectronic Engineering	3	3			工業電子與實習 Industrial Electronics Lab			3	4			
						電子實習(一)(二) Electronics Practicum(1)(2)	2	3	2	3	半導體概論與實習 practicum and Introduction to Semiconductors	3	4			數位系統設計與實習 Digital Systems Design and Laboratory			3	4			
						計算機程式 Computer Programming	2	3			微算機應用與實習(二) Microcomputer Applications and Practicum(2)	3	4										
						微算機應用與實習(一) Microcomputer Applications and Practicum (1)				3	4	印刷電路板製作 PCB Design and Manufacturing			3	3							
												物件導向程式設計 Object-Oriented Programming			3	3							
<b>小計total</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>小計total</b>	<b>10</b>	<b>12</b>	<b>8</b>	<b>10</b>	<b>小計total</b>	<b>11</b>	<b>14</b>	<b>8</b>	<b>9</b>	<b>小計total</b>	<b>3</b>	<b>3</b>	<b>6</b>	<b>8</b>	<b>52</b>	<b>63</b>		
<b>必修合計total</b>		<b>17</b>	<b>17</b>	<b>17</b>	<b>18</b>											<b>9</b>	<b>9</b>	<b>6</b>	<b>8</b>	<b>100</b>	<b>111</b>		
專業選修 Professional Elective	基礎 foundation	工業安全與衛生 Industrial Safety & Health	3	3			電子學(三) Electronics (三)	3	3			智慧財產與專利申請實務 Intellectual Property and The Practice of Patent Application	3	3									
		訊號與系統 Signals and Systems	3	3			科技英文 Technology English(Required)			2	2	電子產品生產實務 Manufacture and Practice of Electronic Products			3	3							
		計算機程式 Computer Programming	2	3								電子產品銷售實務 Electronic products sales practices			3	3							
		電路學(二) Electronic Circuits (2)				3	3																
	資訊科技 Information Technology	生活資訊導論 Introduction of life information and communication	3	3			物聯網應用與實習 Internet of Things application and Practicum	3	4			動畫製作與實習 Animation and internships	3	4									
		手機app程式設計 Smartphone_app_program design				3	3	人工智慧應用與實習 Artificial Intelligence Application Practice	3	4		互動式網頁設計 Active Web Page Programming	3	3									
							大數據應用設計與實習 Design and Practicing for Big Data Applications			3	4	遊戲程式設計 Design of game program			3	3							
							雲端服務應用與實習 Cloud Service Application and Practicum			3	4	多媒體編輯實務 Multimedia editing practices			3	3							
							數位影像處理與實習 Digital image processing and experiment			3	4												
							視窗程式設計 Windows Programming	3	3			印刷電路板進階設計與製作 Design and manufacture of	3	3									
應用電子 Applied electronics	微電腦應用 Microcomputer applications	微測元件與應用實務 Introduction of common sensors	3	3			圖控軟體程式設計與應用 Design and application of the graphic control software Programmi	3	3			資料擷取與信號量測分析 Data acquisition and measuring analysis			3	3	嵌入式系統與實習 Embedded System and Experiments			3	4		
												微控制器周邊應用與實習 The microcontroller peripheral applications and experiments			2	3	系統晶片設計應用與實習 System Chip Design- Application and Practice			3	4		
	光電半導體 Optoelectronic semiconductors	真空設備及薄膜技術 vacuum thin film technology equipment	3	3			LED晶粒製造與構裝 The technology of LED Die Manufacture and package	3	3			平面顯示器導論 Introduction to Flat Panel Display	3	3									
		雷射原理與應用 Laser Principles & Applications							3	3	半導體構裝技術 Semiconductor Fabrication Technology			3	3								
						超大型積體電路製程技術 Very Large-Scale Integrated Circuit Process Technology	3	3			背光顯示器之分析與設計 Back-Light Module of LCD Analysis and Design			3	3								
						太陽能工程實務 Practice of Solar Energy Engineering			3	3													
備註 Note	<p>1.必修總學分數合計 100 學分。(共同必修 48 學分,專業必修 52 學分) 選修最低總學分數 28 學分。(非必修學分至少應修12學分)</p> <p>The total number of compulsory credits is 100 credits.(48 credits of common compulsory courses and 52 credits of major compulsory courses)The minimum total number of elective credits is 28 credits.(A maximum of 12 credits of elective credits from external departments will be recognized).</p> <p>2.一年級至三年級每學期至少修習9學分,至多修習27學分。四年級每學期至少修習9學分,至多修習36學分。</p> <p>For the first three years, students must take at least 16 credits and no more than 27 credits per semester. For the fourth year, students must take at least 9 credits and no more than 36 credits per semester.</p> <p>3.後三學期每學期至少選修一門實習課。</p> <p>At least one Practicum course must be taken in each of the last three semesters.</p> <p>4.博雅一~博雅四可不必依序修習,但需修完博雅一~博雅四方可畢業。</p> <p>Students do not need to take the "Liberal Arts" courses (I to IV) in sequence, but they must complete all four courses to graduate.</p> <p>5.選修工程學院課程可計入畢業學分以12學分為限。(計畫課程除外)</p> <p>The number of elective courses taken in the School of Engineering that can be counted towards graduation is limited to 12 credits. (Except planned courses)</p> <p>6.工程學院共同必修:計算機程式(2學分/3學時)、職場安全與衛生(2學分/2學時)、職場倫理(2學分/2學時)。</p> <p>Required courses of the College of College of Engineering include : Computer Programming (2 credits/3 hours), Introduction to safety and sanitation (2 credits/2 hours), and The Ethics of Workplace (2 credits/2 hours).</p> <p>7.110.10.12系課程與教學會議通過,110.10.27院課程與教學委員會通過,110.11.05 校級課程委員會通過,110.11.24教務會議訂定通過。</p> <p>Passed by the Department Curriculum and Teaching Meeting on October 12,2021 and Passed by the Curriculum and Teaching Committee of the College on October 27,2021 and Passed by the school-level curriculum committee on November 5,2021 and approved by CTU Academic Affairs Meeting on November 24,2021.</p>																						