

National Quemoy University Bachelor's Program - Department of Computer Science and Information Engineering
111 學年度入學新生適用
 Applicable for Freshmen Admitted in Academic Year 2022

		一年級		上學期		下學期		二年級		上學期		下學期		三年級		上學期		下學期		四年級		上學期		下學期		四年合計 Total		
		First Year		Semester	Semester	Second Year		Semester	Semester	Third Year		Semester	Semester	Fourth Year		Semester	Semester	Semester	Semester	Semester	Semester	Semester	Semester	Semester				
				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			
				Cr	Hr	Cr	Hr			Cr	Hr	Cr	Hr			Cr	Hr	Cr	Hr			Cr	Hr	Cr	Hr			
共同必修 General Required Courses		通識 General Education		依本校「學生修習通識教育課程辦法」規定。Follow the university's "General Education Curriculum Guidelines" – 16 credits																				16				
		體育 Physical Education		依本校「體育課程實施辦法」規定。Follow the university's "Physical Education Curriculum Guidelines" – 0 credit																				0				
		國文(一)Chinese(I)		2	2																						8	
		英文(一)English(I)		2	2																							
		服務教育 Service Education		0	1																							
		國文(二)Chinese(II)				2	2																					
		英文(二)English(II)				2	2																					
		服務教育 Service Education				0	1																					
共同必修總計Subtotal		4		4																						24		
專業必修 Professional Required Courses	院必修 College Required	微積分(一) Calculus(I)		3	3																					6		
		計算機概論 Information to computer		3	3																							
		院必修總計 Subtotal		6																							6	
	系必修 Department Required Courses	程式設計 Programming		3	3					計算機結構 Computer Architecture	3	3				作業系統 Operating System	3	3										51
		數位邏輯 Digital Logic		3	3					資料結構 Data Structure	3	3				專題製作(一) Senior Projects (I)	3	3										
		多媒體概論 Multimedia Introduction		3	3					電路學 Circuits Studies	3	3				專題製作(二) Senior Project(II)			3	3								
		線性代數 Linear Algebra				3	3			系統程式 System Programming			3	3														
		程式設計進階 Advanced Programming				3	3			資料庫系統管理 Database System and Management				3	3													
		資訊網路 Computer Networks				3	3			離散數學 Discrete Mathematics				3	3													
		網頁設計 Web Site Design				3	3																					
		資訊科技英文導論 English for Information Technology				3	3																					
	系必修總計 Subtotal		9		15						9		9				6		3								51	
	專業必修總計Subtotal		15		15						9		9				6		3								57	
	一般選修 General Elective Courses		套裝軟體認證 Package software Authentication		2	2					資訊科技認證 Iformation technology certification	2	2			機率與統計 Probability and Statistics	3	3			專題研究(一) Directed Research(I)	2	2					
電腦輔助電路設計與模擬 Computer-aided circuit design and simulation			3	3					智慧型行動裝置軟體設計 Smartphone device software	3	3			演算法 Introduction to Algorithms	3	3			工程倫理 Engineering Ethics	3	3							
電腦應用軟體認證 Computer Application Software Certification					3	3			iOS程式設計 iOS Programming			3	3	遊戲程式設計 Game Programming	3	3			校外專業實習(一) Outside exersitise (I)	4	4							
數位邏輯實習 Digital logic internship					3	3			多媒體程式設計 Multimedia Programming			3	3	多媒體應用軟體 Multimedia Applications Softwares	3	3			國際資訊證照導論 Infomatien Authentication	2	2							
微積分(二) Calculus(II)					3	3			程式與數學 Mathematics and Coding	3	3			行動科技與生活 Mobile Technology and life			2	2	雲端資訊認證 Cloud Information Certification	2	2							
														VR科技應用導論 Introduction to VR Technology Application			2	2	專題製作(三) Senior Project(III)	3	3							
														多媒體整合 Multimedia Conformity			3	3	食微粒子分析應用 Food particle analysis applications	2	2							
																			高齡芳療健康促進與實務應用 Aromatherapy Science and Practical Applications	2	2							

專業
選修
Professional
Electives

專業 選修 Professional Electives																	智慧淨零碳排與AI應用 Smart net-zero carbon emissions and AI applications	3	3				
																	專題研究(二) Directed Research (II)			2	2		
																	企業實務培訓 Enterprises Practical Training			3	3		
																	校外專業實習(二) Extramural Practicum (II)			4	4		
																	元宇宙在精準健康產業的應用 pplication of Metaverse Technology in Precision Health			2	2		
	網路技術與 應用選修 Elective Courses of Computer Network								TCP/IP協定 TCP/IP Protocol Suite	3	3						伺服器架設 Server Setup & Maintenance	3	3				
									網站設計進階 Advanced Web Site Programming	3	3						區塊鏈實務與安全 Blockchain Practice and Security	3	3				
									Linux作業系統實務 Practice of Linux Operating System			3	3				Linux系統自動化運維 Automatic Operation and Maintenance for Linux System		3	3			
																	互動式網頁程式設計 Interactive Web Programming		3	3			
																	計算機網路 Computer Network		3	3			
																	電腦網路安全概論 Introduction to Computer and Network Security		3	3			
																	無線網路 Wireless Networks		3	3			
																	網路模擬與分析 Network Simulation and Performance Analysis				3	3	
																	雲端運算 Cloud Computing				3	3	
																	電腦網路安全實務 Computer Network Security Practices				3	3	
																	資訊與網路安全概論 Introduction to Information and Network Security				3	3	
	人工智慧選 修 Elective Courses of AI								現代程式語言 Modern Programming Language	3	3						資料探勘導論 Introduction to data	3	3				
									演算法與資料分析 Algorithm and Data Analysis			3	3				科學計算 Scientific Computing	3	3				
									資料處理實務 Data Processing Practices			3	3				人工智慧導論 Introduction to Artificial Intelligence	3	3				
																	人工智慧 Artificial Intelligence		3	3			
																	商業數據分析應用 Business Data Analytics Applications		3	3			
																	機器學習 Machine Learning		3	3			
																	人工智慧實務 Practical Artificial Intelligence		3	3			
																	人工智慧在酒類檢測與分析 Artificial Intelligence in Wine Detection and Analysis				2	2	
	智慧物聯網 選修 Elective Courses of AIoT								單晶片原理應用 Pinciples and applications of single chip microcomputer lab			3	3				微電腦數位實習 Micro-Computer Digital Practice	3	3				
									電腦硬體裝修 Computer Hardware Decoration			3	3				嵌入式系統概論 Introduction to Ebedded System	3	3				
																	嵌入式微處理器系統 Ebedded processor systems		3	3			
																	硬體描述語言程式設計與模擬 System Design Using Hardware Description Language			3	3		
	TAICA選修 Elective Courses of																智慧型機器人 Intelligent robots				3	3	
																	機器導航與探索 Robotic Navigation and Exploration				3	3	
																	生成式人工智慧的人文導論 Introducing Generative AI for Humanities				3	3	

	TAICA													生成式AI文字與圖像生成的原理與實務 Generative AI: Text and Image Synthesis Principles and Practice			3	3	
專業選修總計Subtotal			5		9			17		21			33	28		65		45	223
學期總計Subtotal			24		28			26		30			39	31		65		45	288

備註：

1.本表適用於111(含)學年起入學之資訊工程學系學生。

This table applies to students admitted to the Department of Computer Science and Information Engineering from the 111th academic year (inclusive).

2.本系畢業學分最低為130學分，學生必須修畢共同必修課程24學分(共同科目8學分、通識16學分)、專業必修57學分(含院必修6學分)、專業選修至少49學分(包括12學分可選修非本系所開設之專業課程)，且學生須通過「本校學生英文及資訊能力畢業門檻及輔導辦法」相關規定始可畢業。

The total required credits for graduation are 130 credits. Students must complete the following credits: 24 credits of general core (8 credits of general required courses, 16 credits of general education courses), 57 credits of professional required courses (including 6 credits of college required courses), and at least 49 credits of professional elective courses (including 12 credits that can be selected from professional courses offered by other departments). Additionally, students must pass the school's English and information skills requirements in order to graduate.

3.本系要求111入學者須於大學四年中取得本系表列之任一資訊相關專業證照方可畢業。

Students admitted in the 111th academic year and thereafter are required to obtain one of the information-related professional certifications listed by this department during their four years of study.

4.學測成績達70級分同學，可依志願優先推薦成為國內外交換生，於交換學校所修習系之學分，得採計為系上各式之畢業學分，總數以畢業總學分四分之一為限；學測成績達75級分同學，可依其志願採保障名額成為國內外交換生，於交換學校所修習系之學分，得採計為系上各式之畢業學分，總數以畢業總學分二分之一為限。

This is a description about the general scholastic ability test for senior high school in this country and does not apply to international students.

5.大學部學生可選修碩士班課程，依「國立金門大學一貫修讀學、碩士學位辦法」申請抵免。

Undergraduate students may take master's level courses and apply for credit exemption according to the "Five-year study plan for bachelor's and master's degrees".

6.相同課程名稱適用碩士班。

The same course titles apply to the master's course.

7.表列選修科目為預定科目，將視實際需要而調整。

The listed elective courses are planned courses and may be adjusted based on actual needs.