

資訊工程系 四技 114 學年度入學課程結構規劃表

2025 Curricula for the Day School (4-year College Program) in Department of Computer Science and Information Engineering

The state of the s	理 积 淅 N		一年級 1st	Academic Year						4 th Academic Year		
SERVICE OF STATE			第一學期 Semester 1	第二學期	第一學期	第二學期	第一學期	第二學期	第一學期	第二學期 Semester 2		
	課程類別 Course Category			Semester 2 學分數 Course Name Credits	Semester 1 課程名稱 Course Name	Semester 2 學分數 Credits Course Name	Semester 1	Semester 2 課程名稱 Course Name Figure 19 Republication of the part of the p	Semester 1 學分數 Course Name Codits	學時		
1 5. 4	+ 同以依細和	P文閱讀與 表達(一) Chinese Reading and Expression (I)	中文閱讀與 表達(二)									
	 		實用英文(一) Practical English (1)	English (2)	English (3)	Practical English (4)						
			體育(一) Physical 0 2 Education (1)	體育(二) Physical 0 2 Education (2)	體育(三) Physical 0 Education (3)	體育(四) Physical 0 2 Education (4)						
	校訂 通識 University General Education Domains 基礎探索入門 Introduction to Basic Exploration	通識 基礎探索入門 應修學分數 有力										
12 J.W	人文與創意美感 Humanities and Creative Aesthetics	,	博雅通識/學分數/時數 Course Name/Credits/									
通識 課程 General Education	科技與數位知能 Technology and Digital Literacy 排雅	應修學分數 14學分	博雅通識/學分數/時數 Course Name/Credits/	改 Hours								
Courses	日本 社會與身心關懷 通識 Society and Physica Liberal and Mental Well- Curriculumbeing	(至少任選3 開群) (min. required: 14 credits	博雅通識/學分數/時婁 Course Name/Credits/									
	Domains 歷史與多元思維 History and Diversity of Though	思維 across at least 3 different course 博雅通識/學分數/時數										
	全球與永續議題 Global and Sustainable Issues	(mre)	博雅通識/學分數/時數 Course Name/Credits/									

黄工系	475		一年級	1 st Academic Y	ear	二年	級 2 ¹	d Academic Year	三年	-級3	rd Academic Ye	ar	四年級。	4 th Academic Year
CSIE DEPARTMENT	## ### ### ###########################	J 10 米5 미리	第一學期 Semester 1	第二 Seme	ter 2	第一學 Semeste	r 1	第二學期 Semester 2	第一 [§] Semest	er 1	第二 ^學 Semeste		第一學期 Semester 1	第二學期 Semester 2
MARIN & WILL		A程類別 Irse Category	課程名稱 数 Course Name	時 課程名和 數 Course Na	导数 Hours	課程名稱 Course Name	學分數 Credits	課程名稱 Pourse Name Course Name	課程名稱 Course Nam	學分數 Credit	課程名稱 Course Name	學分數 Credits	課程名稱 Course Name	导数 Hourse Name Credits
		通識微學分 General Education Micro-credits			on micro-	credits course	1/1、主	通識微學分(二)/1 Ger redits course 4/1、通	eral education	micro-		2/1、通		eral education micro-
學院共同 課程 (由學院開 課) College Common Courses		選修 Elective	工程實作實習/	3/3Engineer	ing Prac	tice/3/3、\$	勿理實	[₹] 驗與演示/1/3 PI	nysics Expe	rimen	s and Demo	nstrat	ions/3/3	
學院跨領域 課程 (由學院開 課) College Interdisciplinary Courses		選修 Elective	robotics/2/2、 技應用專論/3/ Industry/3/3、 /3/3Semiconduc Hands-on Train and Skills of So	這擬實境互動 3Topics on 幾光電半導 tor Manufacting in Semi emiconductor	的實務/l Applica 體封測/S cturing F conductor Proce	/3The Practions of States /3Mechant Process and or Manufactor Manufactor Equipment (1997)	tice o mart ' ronic Equij turing	機器人程式編和 f Virtual Reality I Technology/3/3、 and Optoelectron pments: Vacuum T g Process and Eq /3/3、半導體設付 BDigital Governar	nteraction/1 車用電子 nic semicon echnology a nipments/3/2 情元件儀控	/3、3 應用。 ducto and Pr 3、半 系統分	D 列印實務 及實務/3/3S r packaging actice/3/3、 導體設備基 實務/3/3Sem	/1/33 Specia and t 半導 ·礎技 icond	D Printing and Pr Il Topics for Aut est/3/3、半導體 體製程設備實務 能實務/3/3Funda uctor Equipment	actice/1/3、智慧 omotive Electror 設備真空系統實 培訓/3/3 umental Knowled
			數位邏輯 設計 Digital 3 Logic Design	計算機 構 3 Comput Architect e	er 3 3	物件導向 程式設計 Object- oriented Programm ing	3 3	線性代數 Linear Algebra	演算法 Algorithm s	3 3	實務專題 (二) Special Topics (2)	1 3		
系專業 課程 Departmental Professional Courses	必修 Required	應修學分數 53 Number of Courses Needed/ Credits Needed53	微積分(一) Calculus (1)	網際網罩 暨應用 Interne and Its Applicat	3 3	資料結構 Data Structures	3 3	計算機網 路 Computer Networks	作業系統 Operating Systems		3			
			計算機程 式設計 Computer Programmi ng	微積分 (二)		離散數學 Discrete Mathemati cs	3 3	機率與統 計 Probabilit y and Statistics	資料庫 Database Systems	3 3	3			

	海雄科技	1991		一年級 187	Academic Year	二年	—— 級 2 ^{nc}	d Academic Yea	ar	三年	級 3 rd	Academic Ye	ear	四年	 -級 4 ^{tt}	Academic Yea	ar
CSIE DEPARTMENT 課程類別		第一學期 Semester 1 第二學期 Semester 2		第一學	第一學期 Semester 1 Semester 2			第一學期 Semester 1 Semester 2					第二學 Semester				
	課程類別 Course Category				與	寺 數 課程名稱		· 課程名稱 Course Name		詩 文 課程名稱 Course Name	學分數 Credits	課程名稱 Course Name	趣	時 數 課程名稱 Course Name	學分數時數	課程名稱	學分數時數
				計算機概 論 Foundation of Computer Science				微處理機 Microproc essor	3 3	實務專題 (一) Special Topics (1)	1 3						
				計算機程式設計了 Computer Program	Object-Orien	物件導向程式設計實習/2/3 Object-Oriented Programming Design Practice/2/3			網際網路協 Internet Pro			高速網路/3/3 High-Speed Networks/3/3					
				數位邏輯設計實行 Digital Logic Desi	微處理機實習/2/3 Practice on microprocessor programming/2/3			數位信號處 Digital Sign		3	生物資訊資料庫/3/3 Biomedical Databases/3/3						
				多媒體程式設計/	工程數學/3/3			資料壓縮/3				影像壓縮/3/3					
		選修 Elective				Engineering Mathematics/3/3				Data Compression				Image Con	Image Compression/3/3		
				互動式網頁程式記 Design and Impler Interactive Web Se					電腦圖學概論/3/3 Introduction To Computer Graphics/3/3				語音壓縮/3/3 Speech Compression/3/3				
				資訊工程概論/3/3 Introduction for In Engineering/3/3	系統程式/3/3 Systems programming/3/3				硬體描述語 Design with Language/3		riptio	電腦遊戲設計實務/3/3 n Computer Games Programming Project/3/3					
				數位電子學/3/3 Digital Electronic	通訊系統概 Introduction Systems/3/3	tion To Communication Number				數值分析/3/3 Numerical Analysis/3/3			虚擬實境/3/3 Virtual Reality Systems/3/3				
				組合語言程式設設 The Programming Assembly Languag	網路程式設計實務/3/3 Internet Program Design Project/3/3				嵌入式系統 Embedded	ns/3/3		資訊安全/3/3 Information Security/3/3					
				物理(一)/3/3 Physics(1)/3/3		視窗程式設計/3/3 Window Program Design/3/3			網路資料庫程式設計/3/3 Internet Database Program Design/3/3			分散式系統/3/3 Distributed Systems/3/3					
				物理(二)/3/3/					生物資訊概論/3/3				多媒體資料庫/3/3				
				Physics(2) /3/3							ioinformati	cs/3/		Multi-Media Data Base/3/3			
				物理實驗(一)/1/3 Physics Experimen	at (1) /1/2					無線網路/3 Wireless No	-5/3/3			程式語言/3/3 Programming Language/3/3			
				物理實驗(二)/1/3	n (1)/1/3					計算分子生				資料探勘/		nguage/3/3	



課程類別 Course Category

一年級 1st Academic Year	二年級 2 nd Academic Year	三年級 3 rd Academic Year	四年級 4th Academic Year				
第一學期 第二學期	第一學期 第二學期	第一學期 第二學期	第一學期 第二學期				
Semester 1 Semester 2	Semester 1 Semester 2	Semester 1 Semester 2	Semester 1 Semester 2				
課程名稱 學分數 Gredits 學分數 Course Name Pourse N	課程名稱 Course Name P分數 Course Name P分數 Course Name P分數 Course Name P分數 Course Name P分數	課程名稱 学分數 Credits 字分數 Credits Name Name	專分數 Gradits 學分數 Cradits Physical Reports Physical Report				
Physics Experiment (2)/1/3		Computational Molecular	Data Mining/3/3				
		Biology/3/3	1 下久从南北数人市田22				
		數位影像處理/3/3	IoT 系統實務整合應用/3/3				
		Digital Image Processing/3/3	Practical Integrated Application of				
			IoT system/3/3 Linux 系統實務整合應用/3/3				
		Three-dimensional Computer Graphics/3/3	Practical Integrated Application of Linux System/3/3				
		Stapines/3/3 語音信號處理/3/3	網路安全/3/3				
		Speech Signal Processing	Network Security/3/3				
		動畫程式設計實務/3/3	•				
		Computer Animation	行動計算/3/3				
		Programming Project/3/3	Mobility Computing/3/3				
		資訊理論/3/3	平行處理/3/3				
		Information Theory/3/3	Parallel Processing/3/3				
		 Linux 系統/3/3	多媒體網路通訊/3/3				
		Linux 永 然/3/3 Linux operating system/3/3	Multimedia Networks and				
		Linux operating system/3/3	Communication/3/3				
		人工智慧/3/3	數位視訊處理/3/3				
		Artificial Intelligence/3/3	Digital Video Processing/3/3				
		編譯器/3/3	電腦視覺/3/3				
		Compiler/3/3	Computer Vision/3/3				
		嵌入式系統程式設計實務/3/3	語音辨認/3/3				
		Embedded System	Speech Recognization/3/3				
		Programming/3/3	1 0				
		軟體工程/3/3	編碼理論/3/3				
		Software Engineering/3/3	Coding Theory/3/3				
		APP 程式設計(一)/3/3	神經網路/3/3				
		APP Programming (1) /3/3	Neutral Network 數學邏輯導論/3/3				
		APP 程式設計(二)/3/3	數字避鸭号論/3/3 Introduction of Mathematical				
		APP Programming (2) /3/3	Logic/3/3				
			深度學習理論與實作/3/3				

7-1	高雄科教	1										
	黄工系	工系等		一年級 1st A	Academic Year	二年級 2nd	Academic Year	三年級 3rd	Academic Year	四年級 4th Academic Year		
	CSIE	1		第一學期	第二學期	第一學期	第二學期	第一學期	第二學期	第一學期	第二學期	
	DEPARTMENT	課	Y 程類別	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	Semester 1	Semester 2	
1	MENU & RIGHT		rrse Category	課程名稱 學分數 時數 Course Name Potalits	課程名稱 Course Name re數 Hours	課程名稱 Course Name P分數 Credits Course Name	學分數 Credits 學分數 Credits	課程名稱 Course Name P分數 Credits	課程名稱 Course Name F數 Hours	課程名稱 學分數 Credits Course Name Credits Deen Learning Th	課程名稱 Course Name 學分數 Credits	
										Deep Learning The Practice/3/3	eory and	
										智能合約開發與	應用/3/3	
										Development and	Application of	
										Smart Contract/3/	3	
										學期實習(一)/9		
										Industry Internshi	p for Safety,	
										Health and Enviro	nmental	
										Engineering(-)/	9	
										學期實習(二)/9		
										Industry Internshi		
										Health and Enviro	nmental	
										Engineering(二)		
										暑期實習/2		
										Summer Intern/2		
										專案實習(一)/2		
										Project practicum	(1) /2	
										專案實習(二)/2		
										Project practicum	(2) /2	

備註:

- 一、畢業總學分數為 128 學分。
- 二、必修 53 學分,選修 47 學分。(不含校共同必修課程及通識課程的學分數)
- 三、校共同必修課程及通識課程 28 學分;相關規定依據本校「共同教育課程實施辦法」、「共同教育課程結構規劃表」及「語言教學實施要點」。
- 四、須修滿英(外)語 8 學分,本國籍學生英語畢業門檻為等同 CEFR B1 以上程度之各類英檢成績,或通過校內英語畢業門檻檢定考試;各系自訂英語畢業門檻高於校訂者,另依該系規定。在學期間參加一次各類公開英檢考試或八次校內英語畢業門檻檢定考試,未通過者,應提出考試成績證明,重複修讀實用英文(三)或實用英文(四)並獲通過,且該重複修讀課程不計入畢業學分。多益成績達 550 分(或等同 CEFR B1 等級)以上者得免修大一英語(4 學分);多益成績達 785 分(或等同 CEFR B2 等級)以上者得免修大一、大二英語(8 學分),但須選修主題式英語或其他外語課程補足語言畢業學分數。其他外語課程請參閱外語教育中心課程結構規劃表。
- 五、學生修讀所屬學院之「學院共同課程」應認列為本系專業課程學分;修讀所屬學院之「學院跨領域課程」或其他學院開課之



課程,則認列為外系課程學分。

- 六、系所訂定條件 (學程、檢定、證照、承認外系學分、擋修規定、各教學分組之畢業應修學分數及其他)
 - (一) 非本系開設之專業選修課程至多可承認 12 學分(非電資學院內各系所開設之課程至多可承認 6 學分)。
 - (二)本系學生動手學習之實務專業課程,必修:計算機程式設計 3/3、網際網路暨應用 3/3、物件導向程式設計 3/3、資料結構 3/3、微處理機 3/3、演算法 3/3、作業系統 3/3、資料庫 3/3、實務專題(一)1/3、實務專題(二)1/3;選修:計算機程式設計 實習 2/3、多媒體程式設計 3/3、互動式網頁程式設計 3/3、物件導向程式設計實習 2/3、資料結構實務 3/3、網路程式設計實務 3/3、網路程式設計實務 3/3、網路程式設計實務 3/3、網路實料庫程式設計 3/3、動畫程式設計實務 3/3、Linux系統 3/3、編譯器 3/3、嵌入式系統程式設計實務 3/3、高速網路 3/3、電腦遊戲設計實務 3/3、資訊安全 3/3、資料探勘 3/3、網路安全 3/3、平行處理 3/3、校外暑期實習 2、組合語言程式設計 3/3。
 - (三) 其中系專業選修科目得選修本校電子系或電機系課程; 大四得選修電機與資訊學院各系所之研究所課程。

Notes:

- 1. Minimum credits required to graduate: 128.
- 2. Required courses: 53 credits; elective courses: 47 credits (excluding credits earned from university-wide common core requirements and general education courses)
- 3. University-wide common core requirements and general education courses total 28 credits. The relevant regulations are based on the school's "Implementation Regulations of Courses in the College of General Education", "Course Schedule of College of the General Education," and "Implementation Regulations of Language Education".
- 4. Students are required to complete 8 credits in English or other foreign languages. For domestic students, the English graduation requirement is to achieve a language proficiency equivalent to CEFR level B1 or above through various recognized English proficiency tests, or by passing the university's internal English graduation proficiency test. If a department sets a higher English proficiency requirement than the university standard, students must follow the departmental regulations. During their studies, students must either take at least one official English proficiency test or participate in the internal English graduation proficiency test up to eight times. Those who do not pass must provide proof of test scores and retake "Practical English (III)" or "Practical English (IV)" and pass the course. However, these repeated courses will not count toward graduation credits. Students who obtain a TOEIC score of 550 or above (or an equivalent CEFR B1 level) are exempt from Freshman English (4 credits). Those who achieve a TOEIC score of 785 or above (or an equivalent CEFR B2 level) are exempt from both Freshman and Sophomore English (8 credits), but must take Theme-based English or other foreign language courses to fulfill the total required credits for language studies. For other foreign language course options, please refer to the Curriculum Structure Plan provided by the Foreign Language Education Center.
- 5. Credits earned by students from the common courses offered by their respective colleges shall be accepted as their affiliated departments' professional courses. However, credits earned from interdisciplinary courses offered either by their colleges or by other colleges will be accepted as credits earned from departments outside their own.
- 6. Departmental requirements (programs, certifications, licenses, recognition of external department credits, prerequisite requirements, credits needed for each teaching division, and other requirements):
 - 1. Up to 12 credits can be recognized for professional elective courses not offered by this department (up to 6 credits for courses offered outside the College of Electrical Engineering and Computer Science).
 - 2. Practical professional courses for students in this department: Required: Computer Programming 3/3, Internet and Applications 3/3, Object-Oriented Programming 3/3, Data Structures 3/3, Microprocessors 3/3, Algorithms 3/3, Operating Systems 3/3, Databases 3/3, Practical Project (I) 1/3, Practical Project

- (II) 1/3; Elective: Computer Programming Practice 2/3, Multimedia Programming 3/3, Interactive Web Programming 3/3, Object-Oriented Programming Practice 2/3, Practical Data Structures 3/3, Practical Network Programming 3/3, Windows Programming 3/3, Microprocessor Practice 2/3, Data Compression 3/3, Network Database Programming 3/3, Animation Programming Practice 3/3, Linux System 3/3, Compiler 3/3, Embedded Systems Programming Practice 3/3, High-Speed Networking 3/3, Computer Game Design Practice 3/3, Information Security 3/3, Data Mining 3/3, Network Security 3/3, Parallel Processing 3/3, Off-campus Summer Internship 2, Assembly Language Programming 3/3.
- 3. Among the department's professional elective subjects, courses from the university's Department of Electronics or Department of Electrical Engineering can be selected; seniors may choose graduate courses from the departments of the College of Electrical Engineering and Computer Science.

