

資訊工程學系進修學士班
111-112 學年度入學新生課程規劃表

校訂必修(通識核心課程)

共計26學分

類別		課程/學門	學分	開課年級		
基 本 知 能 (12)	外國語文學門	英文(一)	4	一		
	(Q)	大二外文自由選	4	二		
	語文表達	中國語文能力表達	2	一下		
	學習與發展(N)	大學學習	1	一上		
	社團學習與實作(K)	課外活動與團隊發展	1	一下		
通 識 核 心 課 程 (14)	探索永續/AI與程式語言		1	一上		
	人文領域	文學經典學門(L)	2	1. 每學門至多修習 2 科		
		歷史與文化學門(P)				
		哲學與宗教學門(V)				
		藝術欣賞與創作學門(M)				
	社會領域	全球視野學門(T)	2			
		未來學學門(R)				
		社會分析學門(W)				
		公民社會及參與學門(S)				
	科學領域	資訊教育學門(O)	2			
		全球科技革命學門(Z)				
		自然科學學門(U)				
	全民國防教育軍事訓練（一）-國防科技				0	
	體育				0	
校園與社區服務學習			0			

系訂必修

共計66學分

科目名稱	學分數	開課年級
計算機概論	3	1
網路概論	3	1
計算機程式語言	3/3	1
靜態網頁設計	3	1
Javascript網頁設計	3	1
開源軟體實務	3	1
機率統計	3	1
資料庫	3	2
資料結構與處理	3	2
行動裝置程式設計(一)	3	2
行動裝置程式設計(二)	3	2
Web程式設計(一)	3	2
Web程式設計(二)	3	2
資料分析(一)	3	2
資料分析(二)	3	2
演算法	3	3
作業系統	3	3
數據視覺化	3	3
人工智慧概論	3	3
專題製作(一)	3	3
專題製作(二)	3	3

系選修

20學分

科目名稱	學分數	開課年級
知識商務	3	三
個人通訊系統	3	三
統計學	3	三
無線區域及個人網路	3	三
無線網路概論	3	三
無線區域網路	3	三
電子商務概論	3	三
機器學習概論	3	三
深度學習概論	3	三
工程數學	3	三
組合語言與系統程式	3	三
編譯程式	3	三
虛擬化技術	3	三
進階C語言實務	3	三
行動裝置程式設計	3	三
正規語言與自動機理論	3	四
雲端計算	3	四
多媒體處理技術	3	四
物件導向軟體工程	3	四
軟體專案管理	3	四
無線網路安全	3	四
資料探勘	3	四
管理資訊系統	3	四
網路安全	3	四
網路程式設計	3	四
影像處理	3	四
大數據分析技法	3	四
物聯網概論	3	四
數據科學實務：使用Python	3	四
物聯網安全	3	四
數位影像處專題	3	四
人工智慧之深度計算入門	3	四
資料壓縮	3	四
金融科技安全	3	四
資訊通訊安全管理	3	四
人工智慧與專家系統概論	3	四
決策支援系統	3	四
軟體開發與專案管理	3	四
系統分析與設計	3	四
J A V A 程式設計	3	四
進階程式設計	3	四
企業系統開發實境	3	四
行動通訊安全	3	四
企業資訊系統	3	四
資訊安全導論	3	四

◎系選修課程依當學期開課課程為主，以上列表僅供參考。

校訂必修：26學分
系訂必修：66學分
系選修：20學分
自由選修：16學分
程式能力檢定：0學分
畢業總學分數：128學分

Department of Computer Science and Information Engineering(Evening Bachelor Degree)
111-112 Academic Year Freshman Course Planning Table

School Compulsory Courses				26 Credits	
Field		Course Name	credit	Grade	
Fundamental 1 courses (12)	Foreign Language (Q)	English (I)	4	1 st year	
		optional foreign language for sophomore year	4	2nd year	
	Ability of Expressing in Spoken and Written Chinese	Ability of Expressing in Spoken and Written Chinese	2	1 st year	
	Learning and Development (N)	Learning in University	1	1 st year	
	Learning and Practice of Club (K)	Learning and Practice of Club	1	1 st year	
	General Education & Core Courses (14)	Exploring Sustainability / AI and Programming Language		1/1	1 st year
humanities		Classics in World Literature (L)	2	Each part from categories only can take up to 2 subjects for 4 credits.	
		History and Culture(P)			
		Philosophy and Religion (V)			
		Arts Appreciation and Invention (M)			
Society and Culture		Global Outlook (T)	2		
		Futures Studies (R)			
		Social Analysis (W)			
		Civil Society and Participation (S)			
Scientific Inquiry		Information & Computer Education (O)	2		
		Global Technology Revolution (Z)			
		Natural Sciences (U)			
All-Out Defense Education Military Training and Nursing			0		
Physical Education			0		
Campus And Community Service-Learning			0		

Department Compulsory Courses		66 credits	
Course Name		credit	Grade
Introduction to Computers		3	1 st year
Introduction to Computer Network		3	1 st year
Computer Programming		3/3	1 st year
Static Web Design		3	1 st year
Javascript Web Design		3	1 st year
Open Source Practice		3	1 st year
Probability and Statistics		3	1 st year
Database		3	2nd year
Data Structure & Processing		3	2nd year
Mobile Device Programming I		3	2nd year
Mobile Device Programming Ii		3	2nd year
Web Programming I		3	2nd year
Web Programming Ii		3	2nd year
Data Analysis I		3	2nd year
Data Analysis Ii		3	2nd year
Algorithms		3	3rd year
Operating Systems		3	3rd year
Data Visualization		3	3rd year
Introduction to Artificial Intelligence		3	3rd year
Special Project I		3	3rd year
Special Project Ii		3	3rd year

Department Elective Courses		20 Credits	
Course Name		credit	Grade
Knowledge Commerce		3	3rd year
Personal Communication Systems		3	3rd year
Statistics		3	3rd year
Wireless Lans and Pans		3	3rd year
Introduction Of Wireless Lan		3	3rd year
Wireless Local Area Networks		3	3rd year
Introduction to E-Business		3	3rd year
Introduction to Machine Learning		3	3rd year
Introduction to Deep Learning		3	3rd year
Engineering Mathematics		3	3rd year
Assembly Language and System Programs		3	3rd year
Compilers		3	3rd year
Virtualization Technology		3	3rd year
Advanced C Programming		3	3rd year
Mobile Device Programming		3	3rd year
Formal Languages & Automata Theory		3	4th year
Cloud Computing		3	4th year
Multimedia Processing Technology		3	4th year
Object-Oriented Software Engineering		3	4th year
Software Project Management		3	4th year
Wireless Network Security		3	4th year
Data Mining		3	4th year
Management Information System		3	4th year
Network Security		3	4th year
Network Programming		3	4th year
Image Processing		3	4th year
Big Data Analytic Techniques		3	4th year
Introduction To Internet of Things *		3	4th year
Practical Data Science on Python		3	4th year
Security of The Internet of Things		3	4th year
Digital Image Processing Project		3	4th year
Introduction to Deep Computing In Artificial Intelligence		3	4th year
Data Compression		3	4th year
Fintech Security		3	4th year
Computer and Network Security		3	4th year
Introduction to Artificial Intelligence and Expert Systems		3	4th year
Decision Support Systems		3	4th year
Software Development and Project Management		3	4th year
System Analysis and Design		3	4th year
Java Programming		3	4th year
Advanced Computer Programming		3	4th year
Workshop Of Enterprise System Development		3	4th year
Mobile Communications Security		3	4th year
Enterprise Information System		3	4th year
Introduction to Information Security		3	4th year

◎ The department elective courses are mainly based on the courses offered in the current semester. The above list is for reference only. °

- (1) Total credits of compulsory subjects: 92 credits (including 26 credits of general education courses)
- (2) Minimum total number of credits required for elective courses in this department: 20 credits.
- (3) Total credits of other elective courses: 16 credits
- (4) Programming Examination
- Total credits for graduation: 128 credits