



資訊工程系 博士班 115 學年度入學課程結構規劃表

2026 Curricula for the Ph.D. Program in Department of Computer Science and Information Engineering

課程類別 Course Category			一年級 1 st Academic Year						二年級 2 nd Academic Year					
			第一學期 Semester 1			第二學期 Semester 2			第一學期 Semester 1			第二學期 Semester 2		
			課程名稱 Course Name	學分數 Credits	時數 Hours	課程名稱 Course Name	學分數 Credits	時數 Hours	課程名稱 Course Name	學分數 Credits	時數 Hours	課程名稱 Course Name	學分數 Credits	時數 Hours
必修 Required	應修學分數 14 學分 Credits Needed 14	專題研討(一) Seminar (1)	2	2	專題研討(二) Seminar (2)	2	2	專題研討(三) Seminar (3)	2	2	專題研討(四) Seminar (4)	2	2	
											論文 Thesis	6	6	



專業 課程 Professional Courses	選修 Elective	應修學分數 18 學分 Credits needed 18	生物計算/3/3	電腦視覺/3/3	圖形理論/3/3	機器學習/3/3
			Biomedical Algorithms/3/3	Computer Vision/3/3	Graphic Theory/3/3	Machine Learning/3/3
			高等計算機網路/3/3	圖型辨識/3/3	類神經網路/3/3	深度學習/3/3
			Advanced Computer Network/3/3	Pattern Recognition/3/3	Neural Networks/3/3	Deep Learning/3/3
			高等演算法/3/3	高等人工智慧/3/3	計算機圖學/3/3	強化學習/3/3
			Advanced Algorithms Analysis/3/3	Advanced Artificial	Computer Graphics/3/3	Reinforcement Learning/3/3
			數位影像處理/3/3	Intelligence/3/3	生物資訊學/3/3	整合學習/3/3
			Digital Image Processing/3/3	網路安全/3/3	Introduction To Computational	Ensemble Learning/3/3
			資料探勘/3/3	Network Security/3/3	Biology/3/3	機率學習/3/3
			Data Mining/3/3	密碼學/3/3	自然語言處理/3/3	Probabilistic Learning/3/3
			高等物件導向程式設計/3/3	Cryptography	Natural Language Processing	資料科學/3/3/3/3
			Advanced Object-Oriented	巨量資料分析/3/3	/3/3	Data Science
			Programming/3/3	Big Data Analysis/3/3	區塊鏈技術與應用/3/3	資料科學專題/3/3
			網路協定工程/3/3	智慧計算/3/3	Blockchain Technology and	Seminar on Data Science/3/3
			Network Protocol Engineering/3/3	Intelligent Computation/3/3	Application/3/3	進階資料分析技術與應用/3/3
			高等 Linux 系統整合應用/3/3	高等資料庫/3/3	量子電腦程式設計/3/3	Advanced Data Analytic
			Advanced Integrated Application of	Advanced Database/3/3	Programming Design of	Techniques and Applications
			Linux System/3/3	雲端計算與服務/3/3	Quantum Computers/3/3	演化演算法與應用/3/3
			基因演算法/3/3	Cloud Computing and	量子電腦進階程式設計/3/3	Evolutionary Algorithms and
			Genetic Algorithm/3/3	Services/3/3	Advanced Quantum	Applications/3/3
			網路科學與社會計算/3/3		Programming of Quantum	
			Network Science and Social		Computers/3/3	
			Computing/3/3			

備註：

- 一、畢業總學分數為 32 學分。
- 二、必修 14 學分，選修 18 學分。
- 三、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。

四、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）其他系所所開設之選修課程至多可承認 3 學分。
- （二）若有計畫型之課程要開設，需經系務會議通過。

Notes:

1. Minimum credit required to graduate: 32 .
2. Required courses: 14 credits; elective courses: 18 credits.
3. Credits earned by students from the common courses offered by their respective colleges shall be accepted as their affiliated department's professional courses. However, credits earned from interdisciplinary courses offered either by their college or by other colleges will be accepted as credits earned from departments outside their own.
4. Departmental requirements (programs, certifications, licenses, recognition of external department credits, prerequisite requirements, credits needed for each teaching division, and other requirements):
 - (1) Elective courses offered by other departments may be credited up to a maximum of 6 credits.
 - (2) If a planned course is to be offered, it must be approved by the department meeting.

