

資訊工程學系 跨域模組課程 必修科目表

Compulsory subject list of Department of Computer Science Cross-disciplinary Program

類別 Category	選別 Type	科目名稱 Courses	學分 Credits		開課 系所 Dept.	備註 Remarks
			上學期 Fall Semester	下學期 Spring Semester		
<p>本系跨域模組 (31 學分) Cross-Disciplinary module curriculum of our department</p> <p>修畢於畢業證書加註：「跨域專長：資訊工程」</p> <p>It could be remarked as “Cross-Disciplinary Specialty : Computer Science” on the diploma after the module curriculum is completed.</p>	<p>必修 (15 學分)</p> <p>Compulsory courses (15 credits)</p>	計算機概論與程式設計 Intro. to Computers and Programming	3		資工系 Dept. of Computer Science	<p>若為原系之必修課程，不足之學分得於本系跨域模組選修課任選。 Excluding compulsory courses of the original department</p>
		資料結構與物件導向程式設計 Data Structures and Object-oriented Programming		3		
		離散數學 Discrete Mathematics		3		
		數位電路設計(邏輯設計) Digital Circuit Design		3		
		演算法概論 Intro. to Algorithms	3			
		基礎程式設計 Basic Programming		0		
	<p>選修 (16 學分)</p> <p>Elective courses (16 credits)</p>	作業系統概論 Intro. to Operating Systems	3		資工系 Dept. of Computer Science	<p>本課程及格條件為通過『程式能力鑑定』 Pass=Passing Basic Computer Programming Exam</p> <p>任選 16 學分 Optional 16 Credits</p>
		計算機組織 Computer Organization		3		
		資訊工程專題 (一)(二) Computer Science and Engineering Projects(I)(II)	2	2		
		編譯器設計概論 Intro. to Compiler Design	3			
		嵌入式系統設計概論與實作 Intro. to Embedded Systems Design and Implementation		3		
		計算機網路概論 Intro. to Computer Networks	3			
		網路程式設計概論 Intro. to Network Programming	3			
		網路通訊原理 或 通訊原理與無線網路 二擇一 Principles of Network Communications or Principles of Communications and Wireless Networks		3		
		計算機圖學概論	3			

		Intro. to Computer Graphics				
		影像處理概論 Intro. to Image Processing		3		
		數值方法 Numerical Methods		3		
		機率 Probability	3			
		訊號與系統 Signals and Systems		3		
		正規語言概論 Intro. to Formal Language		3		
		微處理機系統實驗 Microprocessor System Lab.	3			
		線性代數 Linear Algebra	3			
		數位電路實驗 Digital Circuit Lab.	3			
		電路與電子學(一) Electrical Circuits and Electronics I	3			