

電機資訊學院學士班國際學生組 115 學年度入學學生必修科目、學分數暨畢業總學分表

類別 Type	科目名稱 Courses		學分數 Credits		備註 Remarks
			上學期 1stSem	下學期 2ndSem	
校定必修 Compulsory (30 Credits)	大學中文 College Chinese		2		僑生比照本國生修讀。 外籍生依本校外國學生修讀華語課程實施要點辦理。 Overseas Chinese Students need to follow the same policy as the domestic students. International Students who complete mandarin courses are exempt from taking the "College Chinese" required course. Please refer to the <u>Mandarin Course Requirements for NTHU International Students</u> .
	英文領域 English		8		英文能力檢定通過者，得依學校規定申請免修或減修，請參照英語教育中心網頁。 Students who pass the official English Proficiency tests could waive credits. Please refer to the website of NTHU Center for English Education.
	通識課程 General Education Course	核心通識 Core General	8-12		至少修畢四門核心通識課程，並須含括四個核心向度。電資院學士班國際組學生可選擇一般及 IBP 自開通識課程抵免。 Students are required to register four core courses from at least four different dimensions. EECS-GS students may take official GE courses and IBP GE courses.
		選修科目 Elective Course	8-12		自由選修，可由 IBP 自開部分課程抵免。 Free electives. Foreign students may take courses given by IBP.
		合計 Total	20		
	體育 Physical Education		0		1 至 3 年級必修 A required course for freshmen to juniors
	操行 Conduct		0		每學期成績及格 Will be graded each term
系定必修 Department Required Courses (18-19 credits)	微積分 B 一 Calculus I		3		MATH1030, Freshman suggested (一年級建議)
	普通物理 B 一 General Physics B (I)		3		PHYS1133, Freshman suggested (一年級建議)
	計算機程式設計 Introduction to Programming		3		EE2310 / CS1355 / EECS1111, Freshman suggested (一年級建議)
	邏輯設計 Logic Design		3		EECS1010, Freshman suggested (一年級建議)
	線性代數 Linear Algebra		3		CS2334 / EE2030 / EECS2050, 1 st or 2 nd year suggested (一或二年級建議)
	實作專題一或系統整合實作一 Special Topic on Implementation (I) or System Integration Implementation (I)		1-2		EE3900, 3 rd year and up (三年級建議) CS3901, 3 rd year spring semester (三年級下學期) EECS3900, 3 rd year and up (三年級建議)
	實作專題二或系統整合實作二 Special Topic on Implementation (II) or System Integration Implementation (II)		2		EE3910, 3 rd year and up (四年級建議) CS3902, 4 th year, fall semester (四年級上學期) EECS3910, 3 rd year and up (四年級建議)
基礎選修 Basic Core Courses (12 credits)	微積分 B 二 Calculus II		3		MATH1040, Freshman suggested (一年級建議)
	普通物理 B 二 General Physics B II		3		PHYS1143
	離散數學 Discrete Mathematics		3		EE2060 / CS2336 / EECS2060, 1 st or 2 nd year suggested (一或二年級建議)
	常微分方程 Ordinary Differential Equations		3		EECS2030, 1 st or 2 nd year suggested (一或二年級建議)
	機率 Probability		3		CS3332/ EE3060
	訊號與系統 Signals and Systems		3		EECS2020
	電路學 Electric Circuits		3		EE2210
	資料結構 Data Structures		3		EE2410 / CS2351 / EECS2040
核心選修 Core Courses (12 credits)	電子學一 Electronics I		3		EE2250
	電子學二 Electronics II		3		EE2260
	電磁學 Electromagnetism		3		EE2140
	計算機程式設計二 Introduction to Programming II		3		CS1356
	計算機結構 Computer Architecture		3		EECS4030/CS4100/EE3450

	計算機網路概論 Introduction to Computer Networks	3	EECS3020
	作業系統 Operating Systems	3	CS3423
	計算方法設計或演算法 Design and Analysis of Algorithms or Algorithms	3	EECS4020 / CS4311 / EE3980
專業選修 Professional Courses (28 credits)	電機資訊學院專業課程 Courses offered by EECS, EE, or CS	24	獲得導師同意及班上抵免審核通過之「非電機資訊」課程亦可 Students may take other non-EECS courses after obtaining their advisor's and department's approvals.
	實驗課程 Lab courses	4	CS2104 硬體設計與實驗 Hardware Design and Lab. EE2230 邏輯設計實驗 Logic Design Laboratory CS2410 軟體設計與實驗 Software Studio EE2245 電子電路實驗 Microelectronics EE2405 嵌入式系統與實驗 Embedded Systems EE3662 數位訊號處理實驗 Digital Signal Processing EE3840 電動機械實驗 Electrical Machinery EE4150 光電實驗 Optics and Photonics EE4292 積體電路設計實驗 Integrated Circuit Design EE4320 固態電子實驗 Solid-state Electronics EE4650 通訊系統實驗 Communication System PHY1010 普通物理實驗一 General Physics (I) PHY1020 普通物理實驗二 General Physics (II) (獲得導師同意及班上抵免審核通過之「非電機資訊學院」之實驗課程亦可。Students may also take other lab courses outside of the College of EECS after obtaining their mentor's approval. Application required.)
其餘選修 Free Elective Course (27-28 Credits)		27-28	
最低畢業總學分 Minimum Credits Needed for Graduation		128	中五學制學生畢業總學分應另增加 12 學分，即 140 總畢業學分。 If you were in the Form 5 school system (i.e., took 5 years to complete Junior High School and High School,) you have to take extra 12 credits for graduation. The minimum credits needed for Form 5 school system students are 140 credits. 具教育學程師資生資格之師資職前教育專業課程學分得納入本系畢業學分「其餘選修」至多 14 學分計算。 Credits from Pre-service Teacher Education Courses may be counted as "Free Electives," up to a maximum of 14 credits toward the graduation requirements.