

## 電資院學士班\_國際組 110 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		修讀華語課程得免修大學中文，請參考國立清華大學外國學生修讀華語課程實施要點。 Students who complete Mandarin courses are exempt from taking the "College Chinese" required course. Please refer to the Mandarin Course Requirements for NTHU International Students.
	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，請參照語文中心網頁。 Students who pass the official English Proficiency tests could waive credits. Please refer to the website of NTHU Center of Language 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。 Students are required to register four Core courses from at least four different dimensions.
		選修科目 Elective Course	8-12		自由選修 Free electives.
		合計 Total	20		
	體育 Physical Education		0		1 至 3 年級必修 A required course for freshmen to juniors
	服務學習 Student Service		0		畢業前必修 60 小時 60 hours required before graduation
	操行 Conduct				每學期成績及格 Will be graded each term
系定必修 Department Required Courses (12 credits)	微積分(一) Calculus (I)		3		MATH1030
	普通物理(一) General Physics (I)		3		PHYS1133
	計算機程式設計 Introduction to Programming		3		EE 2310 or CS 1355
	實作專題一 Special Topic on Implementation (I)		1		
	實作專題二 Special Topic on Implementation (II)		2		
基礎選修 Basic Core Courses (12 credits)	微積分(二) Calculus (II)		3		MATH1040
	普通物理(二) General Physics(II)		3		PHYS1134
	邏輯設計 Logic Design		3		EECS1010
	離散數學 Discrete Mathematics		3		EECS2060
	常微分方程 Ordinary Differential Equations		3		EECS2030
	線性代數 Linear Algebra		3		EECS2050
	機率 Probability		3		EECS3030
	訊號與系統 Signals and Systems		3		EECS2020
核心選修 Core Courses (12 credits)	電子學 Electronics		3		
	電路學 Electric Circuits		3		
	電磁學 Electromagnetism		3		
	資料結構 Data Structures		3		EECS2040
	計算機結構 Computer Architecture		3		
	計算機網路概論 Introduction to Computer Networks		3		EECS3020
	作業系統 Operating Systems		3		
專業選修 Core Elective Courses (34 credits)	電機資訊學院專業課程 Courses offered by EECS, EE, or CS		30		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 mentor's and department's approvals.

	實驗課程 Lab courses	4	邏輯設計實驗(硬體設計與實驗) Logic Design、軟體設計與實驗 Software、電子電路實驗 Microelectronics、數位訊號處理實驗 Digital Signal Processing、通訊系統實驗 Communication System, Electromechanical、電動機械實驗 Electrical Machinery、光電實驗 Optics and Photonics、固態電子實驗 Solid-state Electronics、積體電路設計實驗 Integrated Circuit Design、嵌入式系統與實驗 Embedded Systems、普通物理實驗一 General Physics (I)(與導師共同商訂之『非電機資訊』實驗課程或暑期實習亦可。Students may also take other lab courses or summer internships after discussing with their mentors.)
其餘選修 Free Elective Course (26 Credits)		28	與導師共同商訂 Students will discuss with their mentors
最低畢業總學分 Minimum Credits Needed for Graduation		128	