電機資訊學院學士班國際學生組 108 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 上學期 1stSem	下學期 2ndSem	備 註 Remarks
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 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,並須包括四個核心向度。外籍生可由 IBP 自開部分課程抵免。 Students are required to register four Core courses from at least four different dimensions. Foreign students may take courses given by IBP.
		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
	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, Freshman suggested (一年級)
	普通物理(一) General Physics (I)		3		PHYS1133, Freshman suggested (一年級)
	計算機程式設計 Introduction to Programming		3		EE 2310 or CS 1355, Freshman suggested (一年級建議)
	實作專題一或系統整合實作一 Special Topic on Implementation (I) or System Integration Implementation (I)		1		EE3900/ CS3901, Junior suggested (三年級下學期)
	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/ CS3902, Senior suggested (四年級上學期)
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, Freshman suggested (一年級建議)
	離散數學 Discrete Mathematics		3		EECS2060/ EE2060/ CS2336
	常微分方程 Ordinary Differential Equations		3		EECS2030
	線性代數 Linear Algebra		3		EECS2050/CS2334/ EE2030
	機率 Probability		3		EECS3030/ CS3332/ EE3060
	訊號與系統 Signals and Systems		3		EECS2020
核心選修 Core Courses (12 credits)	電子學 Electronics		3		EE2255
	電路學 Electric Circuits		3		EE2210
	電磁學 Electromagnetism		3		EE2140
	資料結構 Data Structures		3		EECS2040/ EE2410/ CS2351
	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

	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 advisor's and department's approvals.
專業選修 Professional Courses (34 credits)	實驗課程 Lab courses	4	EECS2070 邏輯設計實驗 Logic Design Laboratory EECS2080 軟體實驗 Software Studio CS2410 軟體設計與實驗 Software 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) (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 advisors.)
其餘選修 Free Elective Course (28 Credits)		28	與導師共同商訂 Students may discuss with their advisors.
最低畢業總學分 Minimum Credits Needed for Graduation		128	