

電機資訊學院學士班國際學生組 109 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 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。 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 |
| | 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 | | EE2060/ CS2336 |
| | 常微分方程 Ordinary Differential Equations | | 3 | | EECS2030 |
| | 線性代數 Linear Algebra | | 3 | | CS2334/ EE2030 |
| | 機率 Probability | | 3 | | 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 | | 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 | |

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| 專業選修 Professional 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 advisor's and department's approvals. |
| | 實驗課程 Lab courses | 4 | EECS2070 邏輯設計實驗 Logic Design Laboratory CS2104 硬體設計與實驗 Hardware Design and Lab EECS2230 邏輯設計與實驗 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) 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.) |
| | 實習課 Summer Internship | 0 | 透過電資學院暑期實習配合的企業媒合成功後，可選擇企業實習 0 學分課程(EECS3010)。此為選修課程，非強制必修。 Students may apply for the internship through the EECS Summer Internship system for a non-credit course (EECS30100). Optional, not required. |
| 其餘選修 Free Elective Course (28 Credits) | | 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. | |