

Interdisciplinary Program of Engineering-Engineering Technology (English-Taught Program)
112 Academic Year Admission
Compulsory course 、Credits & Graduation threshold

類別 Type	科目名稱 Courses		學分數 Credits		備 註 Remarks
			上學期 1 st Sem	下學期 2 nd Sem	
校 定 必 修 (30 學 分) 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 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 attachment 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。因應外籍生需要，可由本系自開部分課程抵免。 Students are required to register four Core courses from at least four different dimensions. Foreign students could choose to take courses given by this department.
		選修科目 Elective Course	8-12		自由選修，可由本系自開部分課程抵免。 Free electives. Students could also take courses given by this department.
		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
學 士 班 必 修 (17 學 分) Compulsory (17 Credits)	微積分 B 一 Calculus I	微積分 B 二 Calculus II	3	3	
	普通物理 B 一 General Physics B (I)	普通物理 B 二 General Physics B (II)	3	3	
	普通物理實驗 General Physics Laboratory		1		
	計算機程式語言 Introduction to Programming Languages		3		計算機程式語言 (IEEM)、計算機程式設計 (EE)、計算機程式設計一 (CS)
	專題 Undergraduate Research		1		

基礎選修 (任選23學分) Basic courses (23 Credits)		普通化學一、二 General Chemistry (I), (II)	3	3	普通化學一(CHEM)、普通化學二(CHEM)、普通化學二(MSE)
		普通化學實驗 General Chemistry Laboratory	1		
		工程數學一、二 Engineering Mathematics I, II	3	3	
		材料科學與工程一 Material Science and Engineering I	3		
		工作研究 Work Study		3	
		熱力學 Thermodynamics	3		材料熱力學一 (MSE)、化工熱力學(CHE)、基礎熱流學一(PME)
		電路學 Circuitry	3		電路學(PME)、電工原理(MSE)
		質能均衡 Material and Energy Balance		3	
		應用力學一 Applied Mechanics I	2		
專業核心課程 Core Courses (24 Credits)	化工 (CHE)	物理化學一、二 Physical Chemistry (I), (II)	3	3	1 Major field: 15 credits + 1 Minor field: 9 credits
		程序設計 Process Design	3		
		程序控制 Process Control		3	
		生物技術概論 Introduction to Biotechnology	3		
		輸送現象及單元操作一 Transport Phenomena and Unit Operations (I)	3		
		化工單操 Chemical Engineering Unit Operations		3	
		化學反應工程 Chemical Reaction Engineering	3		
		化工熱力學 Chemical Engineering Thermodynamics	3		
		儀器分析及實驗一 Instrumental Analysis and Lab.(I)	3		
	動機 (PME)	應用力學二 Applied Mechanics (II)		2	
		基礎熱流學二 Thermal and Fluid Science II		3	
		材料力學 Mechanics of Materials	3		
		控制系統一 Control System I	3		
		程式設計 Programming Design	3		
		機械設計 Machine Design	3		
		機械製造 Manufacturing Processes	3		

專業核心課程 Core Courses (24 Credits)		電子學 Electronics	3		1 Major field: 15 credits + 1 Minor field: 9 credits
	材料 (MSE)	材料科學與工程二 Material Science and Engineering II		3	
		材料熱力學二 Thermodynamics of Materials II		3	
		結晶繞射概論 Introduction to Crystal Structure and Diffraction Theories	3		
		機械性質 Mechanical Properties	3		
		量子物理導論 Introduction to Quantum Physics	3		
		擴散與相變化 Diffusion and phase transformation		3	
		工工 (IEEM)	線性代數 Linear Algebra		
	離散數學 Discrete Mathematics		3		
	機率論 Probability Theory		3		
	生產計劃與管制 Production Planning and Control			3	
	人因工程一 Human Factors (I)		3		
	工程經濟 Engineering Economics		3		
專業選修 (18 學分) Free Elective Course (18 Credits)		18	工學院內課程，任選至少 6 門並達 18 學分 Choose at least 6 courses from the College of Engineering and achieve 18 credits		
其餘選修 (16 學分) Free Course (16 Credits)		16			
最低畢業總學分 Minimum Credits Needed for Graduation		128			
備註	1. 中五學制學生畢業總學分應另增加 12 學分，詳細內容請洽詢國際班辦公室。 If you're in the Form 5 school system (Take 5 years to complete Junior High School and High School,) you have to take extra 12 credits for graduation. Please check the details with International Bachelor Degree Program office. 2. 112 學年度入學的學生可以依據 113、114 或 115 學年度的修課及學分規範修習。 Students admitted in the 112 academic year can follow the course and credit requirements for Admission in Fall 2024, Fall 2025, or Fall 2026.				

院學士班主任：_____ 日期：____/____/____ 院長：_____ 日期：____/____/____.