工學院學士班工程技術全英語學程

111 學年度入學學生必修科目、學分數暨畢業總學分表

Interdisciplinary Program of Engineering-Engineering Technology (English-Taught Program)

類別 Type	科目	名	稱 Courses		か数 dits 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 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。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 (Ele	選修科目 Elective Course		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	微積分(一) Calculus (I)		微積分(二) Calculus (I I)	3	3	
學士班必修(20學分)	普通物理(一) General Physics (I)		普通物理(二) General Physics(I I)	3	3	
	普通物理實驗 General Physics Laboratory			1		
學分	普通化學一 General Chemistry (I)			3		
Compulsory (20 Credits)	程式設計 Program Design				3	
,	專題 Undergraduate Research			1		

		普通化學二 General Chemistry (II)		3	
基礎選修(任選24學分		普通化學實驗 General Chemistry Laboratory		1	
		工程數學一、二 Engineering Mathematics(I),(II)		3	
		材料科學導論一 Introduction to Materials Science (I)			
		機械工程導論 Introduction to Mechanical Engineering	3		
2 學	4 ₽	工作研究 Work Study		3	
Š)	熱力學 Thermodynamics			熱力學一 (MSE、CHE) 、基礎熱流學一 Thermal and Fluid Science (I)
Basic c	courses (redits)	電路學 Circuitry			電路學(PME)、電工原理(MSE)
(2.0	rearisy	質能均衡 Material and Energy Balance		3	
		應用力學一 Applied Mechanics (I)	2		
	化工 (CHE)	物理化學一、二 Physical Chemistry (I),(II)	3	3	
		輸送現象及單元操作一 Transport Phenomena and Unit Operations(I)			
		化工單操 Chemical Engineering Unit Operations		3	
		化學反應工程 Chemical Reaction Engineering			
專		化工熱力學 Chemical Engineering Thermodynamics			
業 核		儀器分析及實驗一 Instrumental Analysis and Lab.(I)			
心	動機 (PME)	應用力學二 Applied Mechanics(II)		2	
課		基礎熱流學二 Thermal and Fluid Science(II)		3	1 Major field: 15 學分
程		材料力學 Mechanics of Materials			1 Minor field: 9 學分
Core Courses (24 Credits)		控制系統一 Control System (I)			
		機械設計 Machine Design	3		
		機械製造 Manufacturing Processes		2	
		電子學 Electronics		3	
	材料 (MSE)	材料科學導論二 Introduction to Materials Science (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			
		機械性質 Mechanical Properties]
		量子物理導論 Introduction to Quantum Physics	3		

		擴散與相變化 Diffusion and phase transformation		3	
	エエ (IEEM)	線性代數 Linear Algebra		3	
		機率論 Probability Theory			
		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 (15學分) Free Elective Course (15 Credits)			15		工學院內課程,任選至少5門並達15學 分
自由選修 Free Course (15 Credits)			15		
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,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 Sch School,) you have to take extra 12 credits for graduation. Please check the International Bachelor Degree Program office.					rs to complete Junior High School and High