

0503-Department of Electrical Engineering (For the academic year 2023; Admission Status: International Students)

Subject category	Subject name	Credit points	Cross-disciplinary subjects	First academic year		Second academic year		Third academic year		Fourth academic year		Fifth academic year		Remarks
				F	S	F	S	F	S	F	S	F	S	
General education courses	12-Chinese	4	Unlimited	2	2									You can choose courses with different course codes, as long as you complete the required credits.
	English B9B01968、 B9B01969	4	Unlimited	2	2									English Credit Exemption Regulations: a) Passing the General English Proficiency Test (GEPT) Intermediate Level, First Stage, exempts 2 credits of Freshman English. b) Passing the GEPT Intermediate Level, Second Stage, exempts 4 credits of Freshman English. c) Passing the GEPT Advanced Level, First Stage, exempts 4 credits of Freshman English and 2 credits of Advanced English. d) Achieving equivalent scores in English proficiency tests approved by the Ministry of Education allows for processing according to the above regulations.
	38- Advanced English	2	Unlimited			2								Can be taken starting from the second year and above.
	English Graduation Requirements B9D03TVS	0	Unlimited					0						According to the implementation guidelines for the English graduation threshold of our university, students who do not meet the university's English proficiency standards during their

														course of study must provide proof of non-compliance. After verification by their respective departments, they are required to take the " Essential English" course (zero credits) in place of the English proficiency test. Only those who pass this course can graduate.
	Introduction to Artificial Intelligence B9M01024	2	Unlimited	2										Required Liberal arts Courses for Freshmen
	Introduction to Oceanography B9M01Z64	2	Unlimited		2									Required Liberal arts Courses for Freshmen
	11- Liberal arts courses	14	4			2,2	2,2	2,2	2					The courses in this field include four major subfields: Humanities Exploration, Social Dynamics, Technological Innovation, and Cross-disciplinary Sustainability. A minimum of 2 credits is required for Cross-disciplinary Sustainability, and each subfield can be credited for a maximum of 4 credits.
	19- Physical education courses	0	Unlimited	0	0	0	0							Four semesters of mandatory courses with zero credits are required. The elective courses offered by the Physical Education Department each semester (one credit) are not included in the graduation credits.
	Swimming Graduation Requirements B92A12P5	0	Unlimited					0						Those who meet one of the following conditions will be considered eligible: 1. Completed a swimming course during the academic period. 2. Participated in the school's swimming proficiency test and received certification for

Introduction to Microprocessors B530111E	3	Unlimited		3										
Microprocessor Lab B5301N06	1	Unlimited		1										
Electric Circuits B5311P48 、 B5322P48	6	Unlimited		3	3									The course "Electric Circuits" is required to be taken sequentially in the first and second semesters.
Engineering Mathematics (I) B530108U	3	Unlimited		3										
Engineering Mathematics (II) B530208V	3	Unlimited			3									
Linear Algebra B5302S60	3	Unlimited			3									
Electromagnetics B5302P50	3	Unlimited			3									
Electronics B5312P17 、 B5322P17 、 B5333P17	9	Unlimited			3	3	3							
Lab for Electronics B5312P18 、 B5322P18 、 B5333P18	3	Unlimited			1	1	1							
Electromagnetic Waves B5302P49	3	Unlimited				3								
Probability Theory B5302T86	3	Unlimited				3								
Signals and Systems B5302D81	3	Unlimited				3								
Research in Special Topics(I) B53034GL	2	Unlimited						2						

	Research in Special Topic (II) B53044GM	2	Unlimited							2				
Subtotal of departmental required credits		67		14	16	16	13	4	2	2	0	0	0	
departmental mandatory elective courses	33- departmental mandatory elective	9	Unlimited				3	3	3					The six core courses, namely "Automatic Control," "Data Structure," "Physics of Semiconductor Devices," "Electric Machines," "Complex Variables," and "Communication Engineering," require a minimum selection of three courses. Additionally, students must take two specified courses in the corresponding field (refer to the elective courses for each field).
Subtotal of departmental mandatory elective credits		9		0	0	0	3	3	3	0	0	0	0	
Total credits		104		20	22	22	20	11	7	2	0	0	0	
Total required credits										110				
Minimum elective credits										27				
Minimum graduation credits										137				
Note on minimum elective credits				<ul style="list-style-type: none"> 一、 External elective credits should not exceed 12 credits, with a maximum of 6 credits from courses offered outside the College of Electrical Engineering and Computer Science. 二、 "Japanese" (up to 4 credits) can be counted as department-designated professional elective courses. 三、 Credits from "General education courses," "Military Training," and "Physical education courses" are not counted as department-designated professional elective credits. 										
Note on minimum graduation credits														
Remarks		Total required credits (110), including required elective credits of 15.												

海洋科學概論 B9M01Z64	2	不限		2									大一必修博雅課程
11-博雅課程	14	4			2,2	2,2	2,2	2					本領域課程包括人文探索、社會脈動、科技創新與跨域永續等四大子領域，跨域永續至少需修 2 學分，各領域至多認列 4 學分
19-體育課程	0	不限	0	0	0	0							須修滿四學期之零學分必修課程。每學期體育室所開設選修課程（一學分），其學分數不列計入畢業學分內。
游泳畢業門檻 B92A12P5	0	不限					0						符合下列條件次一者通過：1、在學期間內修習一門游泳課程。2、參與本校游泳能力檢測，經體育室證明可完成五十公尺游泳者。3、曾參加游泳競賽，經主辦單位認可之參賽或成績證明者。4、經醫生證明不得或不能從事游泳運動並註明不得從事游泳運動之期限，且該期限超過學生在校修讀之餘留期限者。
22-服務學習	0	不限	0	0									
共同教育課程學分小計	28		6	6	6	4	4	2	0	0	0	0	

系訂專業必修	普通物理 B53114EE、B53214EE	4	不限	2	2									
	微積分 B5311M9H、B5321M9H	8	不限	4	4									
	程式設計 B5301M33	3	不限	3										
	程式設計實習 B5301M30	1	不限	1										
	交換電路與邏輯設計 B5301498	3	不限	3										
	交換電路與邏輯設計實驗 B53014EB	1	不限	1										
	微處理機概論 B530111E	3	不限		3									
	微處理機實驗 B5301N06	1	不限		1									
	電路學 B5311P48、B5322P48	6	不限		3	3								電路學一下、二上課程 需依序修習。
	工程數學(I) B530108U	3	不限		3									
	工程數學(II) B530208V	3	不限			3								
	線性代數 B5302S60	3	不限			3								
	電磁學 B5302P50	3	不限			3								
	電子學 B5312P17、B5322P17、 B5333P17	9	不限			3	3	3						
電子學實驗 B5312P18、B5322P18、 B5333P18	3	不限			1	1	1							
電磁波 B5302P49	3	不限				3								

	機率學 B5302T86	3	不限				3							
	訊號與系統 B5302D81	3	不限				3							
	專題研究(I) B53034GL	2	不限						2					
	專題研究(II) B53044GM	2	不限							2				
系訂專業必修學分小計		67		14	16	16	13	4	2	2	0	0	0	
系訂專業必修	33-電機系系訂必選	9	不限				3	3	3					「自動控制」、「資料結構」、「半導體物理」、「電機機械」、「複變函數」、「通訊工程」，以上 6 門核心課程至少必選 3 門，並加修 2 門對應領域的指定課程(參考各領域核心選修課程表)
系訂專業必選修學分小計		9		0	0	0	3	3	3	0	0	0	0	
總學分		104		20	22	22	20	11	7	2	0	0	0	
必修總學分數		110												
選修最低學分數		27												
畢業最低學分數		137												
選修最低學分數備註		一、外系選修不得超過 12 學分，其中選修電資學院以外系所課程不得超過 6 學分。 二、「日文」(最多 4 學分)可作為系訂專業選修課程。 三、「共同教育課程」、「軍訓」與「體育」之學分均不計入系訂專業選修。												
畢業最低學分數備註														
備註		必修總學分(110)含必選修 15 學分												