Approved by the Curricular Committee, Department of Electronics and Electrical Engineering, on March. 26, 2025

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### 國立陽明交通大學電機工程學系丙組修業規定及必(選)修科目表

# NYCU Department of Electronics and Electrical Engineering Requirements and Table of Required Courses for Medical ECE Program

自 114 學年度起 (Start from Academic Year 2025)

科目名稱 Course Name	規定	第一學年		第二學年		第三學年		第四學年		214. ) )		
	學分	Freshmen		Sophomore		Junior		Senior		備註		
	Credit	上 1 <sup>st</sup>	下 2 <sup>st</sup>	Remar	ks							
微積分(一)(二)	8	4				-				Ţ		
Calculus(I)(II)	0	4	4							unc		
物理(一)	4	4								基礎類(15 學分) Fundamental (Mathematics) Courses (15 credits)		
General Physics(I)	4	4			<u></u>					ent ent		
線性代數	3		3							健類(15 學) Courses (15 credits)		
Linear Algebra										L5 a		
生涯規劃與導師時間	0	0	0							基礎類(15 學分 mental (Mather Courses		
Career Planning and Mentor's Hours										ma ~		
服務學習(一)(二)	0		0	0						tics		
Student Service Education(I)(II)												
電子學(一)(二)	6			3	3					<u>m</u>		
Electronics(I)(II)					,					ect		
電子實驗(一)	2			2						機類(14 學分) (14 credits)	_	
Electronics Lab(I)										4 Cr 類 (1	Fundamental Courses (58 學分)	
電路學	3			3						機類(14 學) ical Engine (14 credits)	dar 基	
Circuit Theory										ts)	基礎	
訊號與系統	3				3					電機類(14 學分) Electrical Engineering (14 credits)	ental Cou	
Signals and Systems					J					04	C 課	
計算機概論與程式設計	3	3								(6 c) (6 計	ursi 程	
Intro. to Computers and Programming										Crec enc mp 外 地	es (	
邏輯設計	3	3								(6 學分) Science Science	程(58 學分) 程(58 學分)	
Logic Design	J									,	G 分	
化學(一)(二)	6	3	3								dits	
Chemistry(I)(II)												
普通生物學(一)(二)(生物科技系)	6	3	3							Pre 醫		
General Biology(I)(II)										(19 A		
普通生物學實驗 (生物科技系)	1		1							預類(19 學?)-Med Cours		
General Biology Lab										9 <u>ه</u> Coر edit		
生物化學 (醫學系遠距)	4			4						醫預類(19 學分) Pre-Med Courses (19 credits)		
Biochemistry (remote learning)	ļ									35 ~		
醫學人文導論 <mark>(醫學系遠距)</mark> Introduction to Medical Humanities	2	2										
普通心理學 (博雅書苑) General Psychology	2	2								醫 (4 (4 (4 S		
基礎醫學概論 (醫學系非同步)	3			3						學通識 (4 學分) General Medical Medical		
Introduction to Basic Medicine (remote)	2			2						s) ——) <sub>類</sub>		

電子實驗(二)										_			$\neg$	
Electronics Lab(II)	2				2					ing.	٦			
微分方程										ine	禾			
Differential Equation	3			3						erin Cre	學	只		
<del></del>					_					ering (at credits)	學分)	Fun		
Probability	3				3					Engineering (at least 5	3	Fundamental Selective Courses (10 credits)		
電磁學	3				2					ast	2	` ner	Ħ	
Electromagnetics	3				3					5	·	<u>  ta</u>	基礎	
微生物及免疫學 (醫學系遠距)	4				4					<		Sel	必	
Microbiology & Immunology (remote)	4				4					led		ect	必選課	
微生物及免疫學實驗 <mark>(醫學系)</mark>										ca	- 豎	lve	辞程	
Lab Practice in Microbiology &	1				1					S	學	ြင့	红(1)	
Immunology										urs	類	Sar	學	
生物化學實驗 (醫學系)	1			1						e (a	必	) St	程(10 學分)	
Biochemistry Lab	1									T e	进至	100	_	
公共衛生概論 (醫學系遠距)	1			1						ast	學類(必選至少5	crec		
Introduction to Public Health (remote)	1			1						Medical Course (at least 5 credits)	(U	dits		
環境衛生概論 <mark>(醫學系)</mark>	1			1						red	學 分			
Introduction to Environment Health				-						its)				
生醫工程導論	3					3								
Introduction to Biomedical Engineering	3													
跨領域專題	3	需選修至少一學期的電機工程專題或醫師工程師專題研究												
Interdisciplinary Project		Require 3 credits for "Special Project on Electrical Engineering" or												
The company 110 year		"Physician Engineering Research Project"												
專業必修實驗課程 Major compulsory Labs (at least 1 lab)		應從本系開授之專業必修實驗課程至少修得3學分(不含基礎必修												
		實驗課程與專題)												
		Require at least 3 credits obtained from our department (not including												
		the Fundamental Labs, and Project Courses)												
專業選修領域		應從本系開授之專業課程至少修得 21 學分(不含基礎必修、專業必												
		修實驗課程 3 學分與專題),需涵蓋至少 15 學分的本系核心課程。												
	21	Require at least 21 credits obtained from our department (not including												
Major Elective Courses		the Fundamental Courses, 3 credits of the Major Compulsory Labs, and Project Courses), and at least 15 credits must be obtained from Core												
		Curricu		ses), an	id at le	ast 15	credits	must	be obt	ained	trom	Core		
		Currici	lidi.											
合計	95													
		除了醫	學通言	識課程	4 學 9	<b>入之外</b>	,另需	選修村	交 訂核	心課和	呈至り	7 14 學	基	
		分,外語至少6學分,共同必修課程至多採計33學分。Besides												
		the 4 credits for general medical courses, at least 14 credits of NYCU-												
		regulated Core Curricular and at least 6 credits of Foreign Language												
		Courses are required. In total, the department recognizes at most 33												
		credits	from	NYCU-r	egulat	ed Cor	e Curri	icular.						
本系最低畢業學	3 A A	120 組	A Gr	- d +: -	n roai	iromo	n+ 120							

#### ※本組學生之「專業必修實驗課程」、「專業選修課程」、「校定共同必修課程」之定義,同本系乙組學生之基本 修業規範。

★The definitions for "Major Compulsory Labs", "Major Elective Courses" and "NYCU General Education Curricular" for the students in this program are the same as the General Program's guidelines for fundamental curriculum study.

#### ※基礎必修課程第一次修課須修習本校榮譽班或針對本組同學所開設之課程。

<u>X</u>Students, who take fundamental courses for the first time, shall take either NYCU's honor classes or courses specifically offered to this program.

#### ※外系課程之開課單位以當學期實際開課狀況為準。

\*The courses offered by other departments are subject to the actual course opening status of each semester.

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<u>X</u>Students, who receive grade nine or above in the Advanced Placement Computer Science (APCS) exam, can be recognized as having gotten the credits of the fundamental course "Introduction to Computers and Programming".