

110 學年度醫學系「醫師工程師組」必（選）修科目表 11003/11006/11008/11010/11103/11109/11310/11403

Required (Optional) Course List for enrollment after the 110 academic year

Physician-Engineer of School of Medicine

* 110 學年度入學新生適用（116 級）實際以當學期開課為主。

Applicable to new students in the 110 academic year (level 116) based on the actual class schedule.

* 依學則規定，本系學生應修最低畢業總學分不得少於 **241** 學分

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* 除本系醫學人文與社會領域課程及國考科目外，一、二年級必修課程學生得自行確認學分數後修習本校他系課程。計算機概論得修習同等程度或進階程式設計相關課程。

In addition to the courses in the medical humanities and social fields of the department and the national examination subjects, the students of the compulsory courses in the first and second year can take courses in other departments of the school after confirming the number of credits by themselves. The course of Introduction to Computers and Programming can be taken equivalent or advanced programming-related courses.

* 核心課程分「基本素養」及「領域課程」，「領域課程」應至少修習 **2** 個領域。

The core curriculum is divided into Foundation course and Distribution area course. Distribution area courses should be taken at least 2 area courses.

* 自 110 學年度入學新生必須修讀學術倫理課程，始得畢業。(必修 0 學分，採網路教學方式實施，入學第二學期結束前，須至臺灣學術倫理教育資源中心平台修習本課程，並應通過線上課程總測驗及格標準。)

Freshmen admitted since the 110th academic year must take an academic ethics course in order to graduate. (Required 0 credits, the online teaching method is adopted. Before the end of the second semester of admission, this course must be taken on the platform of the Taiwan Academic Ethics Education Resource Center, and must pass the online course general test pass standard.)

* 本校學則第二十九條：「學士班學生應修最低畢業學分總數．．．。軍訓不計入最低畢業學分數，體育及護理選修者是否計入最低畢業學分數，由各系所自訂之，惟合計至多四學分。」

Article 29 of the school's academic rules: "Bachelor's students should take the total number of minimum graduation credits... Military training is not included in the minimum graduation credits. Whether physical education and nursing electives are included in the minimum graduation credits is up to each department. Scheduled, but a total of up to four credits.

一 年 級 First Grade				二 年 級 Second Grade				三 年 級 Third Grade			
科 目 Courses		學分 Credits		科 目 Courses		學分 Credits		科 目 Courses		學分 Credits	
		上	下			上	下			上	下
必	微積分(一) (暑期先修或榮譽班) Calculus (I)	4		必	離散數學 Discrete Mathematics	3		必	大體解剖學 Gross Anatomy	2	1
必	微積分(二) Calculus (II)		4	必 選	微分方程 ^{*1} (電機/電資模組) Differential Equation	3		必	大體解剖學實驗 Gross Anatomy Laboratory	0.8	0.2
必	物理(一) (榮譽班) Physics(I)	4		必 選	電子學(一) ^{*1} (電機/電資模 組) Electronics (I)	3		必	組織學 Histology	1	1
必	化學(一) (光電系) Chemistry (I)	3		必 選	電子實驗(一) ^{*1} (電機/電資 模組) Electronics Lab. (I)	2		必	組織學實驗 Histology Laboratory	0.5	0.5

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必	化學(二) (光電系) Chemistry(II)		3	必	公共衛生概論 (陽明校區遠距) Introduction to Public Health (Remote Learning)		1	必	神經解剖學 Neuroanatomy		2
必	普通生物學(一) (生物科技系) General Biology	3		必	生物化學 (陽明校區遠距) Biochemistry (Remote Learning)	4		必	神經解剖學實驗 Neuroanatomy Laboratory		0.5
必	普通生物學(二) (生物科技系) General Biology (II)		3	必	生物化學實驗 Biochemistry Lab.	1		必	生理學 Physiology	2.2	3.4
必	普通生物學實驗 (生物科技系) General Biology Lab.		1	必	微生物學及免疫學 (陽明校區遠距) Microbiology & Immunology (Remote Learning)		4	必	生理學實驗 Physiology Laboratory	0.8	0.4
必選	邏輯設計*1 (電機/電資模組) Logic Design	3		選	微生物學及免疫學實驗 Lab Practice in Microbiology & Immunology		(0.7)	必	醫學遺傳學 Medical Genetics		1.6
必	線性代數 Linear Algebra		3	必	醫師工程師專題研究*2 Physician Engineer Research Project		1	必	寄生蟲學 Parasitology		1.4
必選	物件導向程式設計*1 (電機/電資模組) (核心課程*基本素養)*4 Object-Oriented Programming (Foundation course)		3	必	醫學人文的實踐 (陽明校區暑期課程) The Practice of Medical Humanities (Yang Ming Summer Course)		2	必	寄生蟲學實驗 Parasitology Lab.		0.6
必	醫學人文導論 陽明校區遠距 Introduction to Medical Humanities (Remote Learning)	2		必	醫學人文與倫理領域 醫學人文類、醫學倫理類 (陽明校區遠距) (自選課程)*3 Medical Humanities and Ethics Curriculum	2	2	必	社區醫學 Community Medicine	1	
必	心靈成長一二 (導師時間) Spiritual Growth I II (Tutor Time)	1	1	必	心靈成長三四 (導師時間) Spiritual Growth III IV(Tutor Time)	1	1	必	社區醫學實習 Community Medicine Practice	1	1

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必	體育 Physical Education	0	0	必	體育 Physical Education	0	0	必	胚胎學 Embryology	0.6	1
必 選	訊號與系統*1 電機模組 Signals and Systems		3	選	環境衛生概論 Introduction to Environmental Health		(1)	必	生物統計學 Biostatistics	2	
必 選	資料結構與物件導向程 式設計*1 資訊工程模組 Data Structures and Object-oriented Programming		3	必 選	演算法概論*1 資訊工程模組 Introduction to Algorithms	3		必	流行病學 Epidemiology	2	
必 選	數位電路設計*1 資訊工程 模組 Digital Circuit Design		3	必 選	作業系統概論*1 資訊工程模 組 Introduction to Operating Systems	3		必	醫事法律 Medical Laws & Regulations		1
必 選	基礎程式設計*1 資訊工程 模組 Basic Programming	0	0	必 選	計算機組織*1 資訊工程模組 Computer Organization		3	必	進階公共衛生議題 Topics in Advanced Public Health		1
必 修	計算機概論與程式設計	3		必 選	電資專業選修(自選至少 8 學分)*1			必	體育 Physical Education	0	0
								必	導師時間 Class Meeting	0	0
								必	醫師工程師專題研究*2	1	
								選	神經症狀學 Symptomatology of nervous system disorders		(1)
								選	醫療經濟 Health Economics		(2)
								選	學術英文寫作 Academic Writing and Research		(1)
	電機模組	23	21		電機模組	19	11		必修學分合計 Total required credits	14.9	16.6

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	建議必修學分合計*5 Total required credits				建議必修學分合計*5 Total required credits						
	電資模組 建議必修學分合計*5 Total required credits	23	18		電資模組 建議必修學分合計*5 Total required credits	19	11				
	資工模組 建議必修學分合計*5 Total required credits	20	21		資工模組 建議必修學分合計*5 Total required credits	17	14				
備註：											
<p>*1: 電資必修科目與專業選修，課程內容請見醫師工程師組學生選修課程施行細則，必修學分數合計未含電資專業選修學分數。</p> <p>*2: 醫師工程師專題研究: 必修 2 學分，分別於二年級下學期與三年級上學期各修讀 1 學分。</p> <p>*3: 「醫學人文與倫理領域」自選課程分醫學人文類與醫學倫理類，需至少各選 2 學分，且兩類課程不得相互抵免。</p> <p>*4: 自 110 學年度起，本校核心課程及語言與溝通課程依國立陽明交通大學共同課程通則辦法實施，但其中領域課程至少應修習兩個領域，且必修心理學概論、計算機概論與程式設計。</p> <p>*5: 若課程列為本校核心課程之基本素養或領域課程，則學生得將該課程認列為核心課程學分數，必修學分合計未含共同課程(24 學分)，詳細內容請參考國立陽明交通大學共同課程通則修業規定(依該入學年度規定適用)。</p>											

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四年 級				五年 級				六年 級			
科 目		學分		科 目		學分		科 目		學分	
		上	下			上	下				
必	藥理學 Pharmacology	2.7	1.7	必	臨床解剖學 Clinical Anatomy	2		必	醫院臨床實習 Clerkship(required course)	28	
必	外科學概論 Introduction to Surgery	0.9	1.0	必	實驗外科 Practice of Surgery	2		必	醫院臨床實習(自選科別) Clerkship(elective course)	16	
必	醫療與社會人文 Medical Humanity and Social Science	2		必	急診醫學(一) Emergency Medicine(1)	1.3		必	附醫實習 Clerkship in University Hospital	4	
必	病理學 Pathology	2.5	1.5	必	急診醫學(二) Emergency Medicine(2)	1		選	醫病關係討論團體(巴林團體) Balint Group for Medical Students	(0.5)	
必	病理學實驗 Pathology Lab	0.5	0.5	選	法醫學 Forensic Pathology	(0.8)					
必	耳鼻喉科學 Otolaryngology	1.6		必	職前臨床技能訓練 Clinical Skill Training	0.5					
必	循環學 Cardiovascular medicine	1.5		必	婦產科學 Obstetrics & Gynecology		2				
必	傳染病學 Infections disease		1.2	必	小兒科學 Pediatrics		2				
必	消化學 Gastroenterology	1.5		必	老人醫學 Geriatric Medicine	0.5					
必	呼吸學 Pulmonary medicine	1.5		必	眼科學 Ophthalmology	1.5					
必	血液學 Hematology		1.2	必	麻醉學 Anesthesiology	1					
必	新陳代謝及內分泌學 Endocrinology	1.4		必	臨床病例及病理討論 Clinical Case Discussion (CPC)		1				

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必	腎臟學 Nephrology		1.3	必	核心內科(講堂) Core-Course in Internal Medicine		1			
必	泌尿學 Urology		1.3	必	核心外科(講堂) Core-Course in Surgery		1			
必	骨骼關節學 Orthopedics		1.6	必	核心實習訓練(內科 8 週) Core Clerkship-Internal Medicine		8			
必	免疫病學 Allergy, Immunology, & Rheumatology		1.7	必	核心實習訓練(外科 8 週) Core Clerkship-Surgery		8			
必	神經學 Neurology	1.5		必	核心實習訓練(兒科 4 週) Core Clerkship-Pediatrics		4			
必	皮膚科學 Dermatology	1		必	核心實習訓練(婦產科 4 週) Core Clerkship-Obstetrics & Gynecology		4			
必	醫學腫瘤學 Medical Oncology		1.1	必	核心實習訓練(影像診斷學 2 週) Core Clerkship-Radiology		2			
必	精神科學 Psychiatry	1.6		必	核心實習訓練(精神科 2 週) Core Clerkship-Psychiatry		2			
必	影像診斷學 Imaging Diagnosis	1.3	0.5	必	核心實習訓練(家庭醫學科 1 週) Core Clerkship-Family Medicine		1			
必	放射治療學 Radiotherapy	0.3	0.2	必	核心實習訓練(高齡醫學 1 週) Core Clerkship-Geriatric Medicine		1			
必	核子醫學 Nuclear medicine	0.4	0.3	必	核心實習訓練(神經內科 2 週) Core Clerkship-Neurology		2			
必	復健醫學 Rehabilitation	0.4	0.5	必	核心實習訓練(骨科 2 週) Core Clerkship-Orthopedics		2			
必	基礎臨床技能訓練課程(一)(二) Basic Clinical Skills (BCS) 一)(二)	1.5	1.5	必	臨床倫理 Clinical Ethics		1			

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必	導師時間 Class Meeting	0	0	必	附醫實習 Clerkship in University Hospital		4				
選	體育 Physical Education	(2)	(2)	選	醫務領導和管理 Healthcare Leadership and Management	(1)					
選	基礎醫學總論 Basic medical sciences		(2)	選	醫用台語 Medical Taiwanese		(1)				
選	整合醫學暨中醫學現代進展 Recent Advances in Integrative Medicine and Chinese Medicine		(2)	選	醫病關係討論團體(巴林團 體) Balint Group for Medical Students	(0.5)	(0.5)				
選	藥理學實驗 Pharmacology Lab		(1)	選	實證醫學臨床案例討論 Evidence-based Medicine: Case Discussion	(2)					
	必修學分合計 Total required credits	24.1	17.1		必修學分合計 Sum	9.8	44		必修學分合計 Total required credits	44	