

國立陽明交通大學醫學系醫師科學家組必選修科目表(113學年度入學新生適用)

List of Courses for Physician Scientist Program, School of Medicine in NYCU

(Applicable to Newly-Admitted Students from Academic Year 2024)

本組學生必須修完醫學系前四年及研究所一年級(研一)之所有課程，方能修習醫學系第五年之課程。

一、校共同課程

| 課程名稱 Course Name | 學分 Credit | 一年級 Grade 1 | | 二年級 Grade 2 | | 三年級 Grade 3 | | 四年級 Grade 4 | | 五年級 Grade 5 | | 六年級 Grade 6 | | 備註 |
|---|--------------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|--|
| | | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | |
| 核心課程 | 18 | 4 | 2 | 6 | 6 | | | | | | | | | 基本素養課程至少 6 學分；領域課程至少 8 學分及至少修習兩個領域，且必修普通心理學。 |
| 語言與溝通課程 | 6 | | | | | | | | | | | | | 大一英文課程必修 4 學分。 |
| 體育課程 Physical Education | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | 大一至大三每學期均需修習必修體育課程 |
| 服務學習課程 Service Learning | | | | | | | | | | | | | | 需修畢通過二門「基礎服務學習課程」或一門「專業服務學習課程」。 |
| 學生學術及研究倫理教育課程 Academic Research Ethics | 0 | | | | | | | | | | | | | 須於入學第二學期結束前通過。 |
| 性別平等教育線上課程 Gender Equity Education Online Course | 0 | | | | | | | | | | | | | 須於入學第一學期結束前通過。 |
| 心靈成長一 Spiritual Growth I | 1 | 1 | | | | | | | | | | | | 導師時間 |
| 心靈成長二 Spiritual Growth II | 1 | | 1 | | | | | | | | | | | |
| 心靈成長三 Spiritual Growth III | 1 | | | 1 | | | | | | | | | | |
| 心靈成長四 Spiritual Growth IV | 1 | | | | 1 | | | | | | | | | |
| 導師時間 Class Meeting | 0 | | | | | 0 | 0 | 0 | 0 | | | | | |

| 課程名稱 Course Name | 學分 Credit | 一年級 Grade 1 | | 二年級 Grade 2 | | 三年級 Grade 3 | | 四年級 Grade 4 | | 五年級 Grade 5 | | 六年級 Grade 6 | | 備註 Remarks |
|---|--------------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|---------------|
| | | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | |
| 生物化學實驗 Biochemistry Lab. | 1 | | | 1 | | | | | | | | | | |
| 公共衛生概論 Introduction to Public Health | 1 | | | 1 | | | | | | | | | | |
| 模擬系統與數據分析 Simulation Models and Data Analysis | 2 | | | 2 | | | | | | | | | | |
| 醫學人文的實踐 The Practice of Medical Humanities | 2 | | | | 2 | | | | | | | | | 專業服務學習課程 |
| 微生物學及免疫學 Microbiology & Immunology | 4 | | | | 4 | | | | | | | | | |
| 量化數據分析 Quantitative Data Analysis | 2 | | | | 2 | | | | | | | | | |
| 寄生蟲學 Parasitology | 1.4 | | | | 1.4 | | | | | | | | | |
| 寄生蟲學實驗 Parasitology Lab. | 0.6 | | | | 0.6 | | | | | | | | | |
| 生物統計學 Biostatistics | 2 | | | | 2 | | | | | | | | | |
| 流行病學 Epidemiology | 2 | | | | 2 | | | | | | | | | |
| 基礎人體結構學 Fundamental Human Anatomical Structure | 1 | | | | 1 | | | | | | | | | |
| 大體解剖學 Gross Anatomy | 4 | | | | | 4 | | | | | | | | |
| 大體解剖學實驗 Gross Anatomy Laboratory | 3 | | | | | 3 | | | | | | | | |
| 組織學 Histology | 2 | | | | | 1 | 1 | | | | | | | PBL 全學年課程 |
| 組織學實驗 Histology Laboratory | 1 | | | | | 0.5 | 0.5 | | | | | | | PBL 全學年課程 |
| 生理學 Physiology | 5.6 | | | | | 2.2 | 3.4 | | | | | | | PBL 全學年課程 |
| 生理學實驗 Physiology Laboratory | 1.2 | | | | | 0.8 | 0.4 | | | | | | | PBL 全學年課程 |
| 胚胎學 Embryology | 1.6 | | | | | 0.6 | 1 | | | | | | | PBL 全學年課程 |
| 社區醫學 Community Medicine | 1 | | | | | 1 | | | | | | | | |
| 社區醫學實習 Community Medicine Practice | 1 | | | | | 0.5 | 0.5 | | | | | | | |
| 神經解剖學 Neuroanatomy | 2 | | | | | | 2 | | | | | | | PBL 全學年課程 |
| 神經解剖學實驗 Neuroanatomy Laboratory | 0.5 | | | | | | 0.5 | | | | | | | PBL 全學年課程 |
| 醫學遺傳學 Medical Genetics | 1.6 | | | | | | 1.6 | | | | | | | PBL 全學年課程 |
| 醫事法律 | 1 | | | | | | 1 | | | | | | | |

| 課程名稱 Course Name | 學分 Credit | 一年級 Grade 1 | | 二年級 Grade 2 | | 三年級 Grade 3 | | 四年級 Grade 4 | | 五年級 Grade 5 | | 六年級 Grade 6 | | 備註 Remarks |
|---|--------------|----------------------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|---------------|
| | | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | |
| | | Medical Laws & Regulations | | | | | | | | | | | | |
| 進階公共衛生議題 Topics in Advanced Public Health | 1 | | | | | | 1 | | | | | | | |
| 數位醫學概論 Introduction to Digital Medicine | 0.5 | | | | | | 0.5 | | | | | | | |
| 病理學 Pathology | 4 | | | | | | | 2.5 | 1.5 | | | | | PBL 全學年課程 |
| 病理學實驗 Pathology Lab | 1 | | | | | | | 0.5 | 0.5 | | | | | PBL 全學年課程 |
| 影像診斷學 Imaging diagnosis | 1.8 | | | | | | | 1.3 | 0.5 | | | | | PBL 全學年課程 |
| 放射治療學 Radiotherapy | 0.5 | | | | | | | 0.3 | 0.2 | | | | | PBL 全學年課程 |
| 核子醫學 Nuclear medicine | 0.7 | | | | | | | 0.4 | 0.3 | | | | | PBL 全學年課程 |
| 復健醫學 Rehabilitation | 0.9 | | | | | | | 0.4 | 0.5 | | | | | PBL 全學年課程 |
| 藥理學 Pharmacology | 4.4 | | | | | | | 2.7 | 1.7 | | | | | |
| 外科學概論 Introduction to Surgery | 1.9 | | | | | | | 0.9 | 1.0 | | | | | |
| 醫療與社會人文 Medical Humanity and Social Science | 2 | | | | | | | 2 | | | | | | |
| 耳鼻喉科學 Otolaryngology | 1.6 | | | | | | | 1.6 | | | | | | |
| 循環學 Cardiovascular medicine | 1.5 | | | | | | | 1.5 | | | | | | |
| 消化學 Gastroenterology | 1.5 | | | | | | | 1.5 | | | | | | |
| 呼吸學 Pulmonary medicine | 1.5 | | | | | | | 1.5 | | | | | | |
| 新陳代謝及內分泌學 Endocrinology | 1.4 | | | | | | | 1.4 | | | | | | |
| 神經學 Neurology | 1.5 | | | | | | | 1.5 | | | | | | |
| 皮膚科學 Dermatology | 1 | | | | | | | 1 | | | | | | |
| 精神科學 Psychiatry | 1.6 | | | | | | | 1.6 | | | | | | |
| 基礎臨床技能訓練課程 (一) Basic Clinical Skills (BCS) (I) | 1 | | | | | | | 1 | | | | | | |
| 基礎臨床技能訓練課程 (二) Basic Clinical Skills (BCS) (II) | 1 | | | | | | | | 1 | | | | | |
| 傳染病學 Infections disease | 1.2 | | | | | | | | 1.2 | | | | | |
| 血液學 Hematology | 1.2 | | | | | | | | 1.2 | | | | | |
| 腎臟學 | 1.3 | | | | | | | | 1.3 | | | | | |

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|--|--------------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|---------------|
| | | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | |
| Nephrology | | | | | | | | | | | | | | |
| 泌尿學 Urology | 1.3 | | | | | | | | 1.3 | | | | | |
| 骨骼關節學 Orthopedics | 1.6 | | | | | | | | 1.6 | | | | | |
| 免疫病學 Allergy, Immunology, & Rheumatology | 1.7 | | | | | | | | 1.7 | | | | | |
| 醫學腫瘤學 Medical Oncology | 1.1 | | | | | | | | 1.1 | | | | | |
| 實驗外科 Practice of Surgery | 2 | | | | | | | | | 2 | | | | |
| 急診醫學(一) Emergency Medicine(1) | 1.3 | | | | | | | | | 1.3 | | | | |
| 急診醫學(二) Emergency Medicine(2) | 1 | | | | | | | | | 1 | | | | |
| 職前臨床技能訓練 Clinical Skill Training | 0.5 | | | | | | | | | 0.5 | | | | |
| 老人醫學 Geriatric Medicine | 0.5 | | | | | | | | | 0.5 | | | | |
| 眼科學 Ophthalmology | 1.5 | | | | | | | | | 1.5 | | | | |
| 麻醉學 Anesthesiology | 1 | | | | | | | | | 1 | | | | |
| 婦產科學 Obstetrics & Gynecology | 2 | | | | | | | | | | 2 | | | |
| 小兒科學 Pediatrics | 2 | | | | | | | | | | 2 | | | |
| 臨床病例及病理討論 Clinical Case Discussion (CPC) | 1 | | | | | | | | | | 1 | | | |
| 核心內科(講堂) Core-Course in Internal Medicine | 1 | | | | | | | | | | 1 | | | |
| 核心外科(講堂) Core-Course in Surgery | 1 | | | | | | | | | | 1 | | | |
| 核心實習訓練(內科) Core Clerkship-Internal Medicine | 12 | | | | | | | | | | 12 | | | 12 週 |
| 核心實習訓練(外科) Core Clerkship-Surgery | 12 | | | | | | | | | | 12 | | | 12 週 |
| 核心實習訓練(兒科) Core Clerkship- Pediatrics | 6 | | | | | | | | | | 6 | | | 6 週 |
| 核心實習訓練(婦產科) Core Clerkship- Obstetrics & Gynecology | 6 | | | | | | | | | | 6 | | | 6 週 |
| 核心實習訓練(影像診 斷學) Core Clerkship- Radiology | 4 | | | | | | | | | | 4 | | | 4 週 |
| 核心實習訓練(精神科) Core Clerkship- Psychiatry | 2 | | | | | | | | | | 2 | | | 2 週 |
| 核心實習訓練(家庭醫 學科) | 1 | | | | | | | | | | 1 | | | 1 週 |

| 課程名稱 Course Name | 學分 Credit | 一年級 Grade 1 | | 二年級 Grade 2 | | 三年級 Grade 3 | | 四年級 Grade 4 | | 五年級 Grade 5 | | 六年級 Grade 6 | | 備註 Remarks |
|---|--------------|--------------------------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|---------------|
| | | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | |
| | | Core Clerkship-Family Medicine | | | | | | | | | | | | |
| 核心實習訓練(高齡醫學) Core Clerkship-Geriatric Medicine | 1 | | | | | | | | | | 1 | | | 1 週 |
| 核心實習訓練(神經內科) Core Clerkship-Neurology | 2 | | | | | | | | | | 2 | | | 2 週 |
| 核心實習訓練(骨科) Core Clerkship-Orthopedics | 2 | | | | | | | | | | 2 | | | 2 週 |
| 臨床倫理 Clinical Ethics | 1 | | | | | | | | | | 1 | | | |
| 醫院臨床實習 Clerkship(required course) | 16 | | | | | | | | | | | | 16 | |
| 醫院臨床實習(自選科別) Clerkship(elective course) | 12 | | | | | | | | | | | | 12 | |
| 附醫實習 Clerkship in University Hospital | 4 | | | | | | | | | | | | 4 | |
| 合計 | 217 | 14 | 13 | 10 | 17 | 13.6 | 13.4 | 23.6 | 16.6 | 7.8 | 56 | | 32 | |

三、系選修課程 Elective courses

| 課程名稱 Course Name | 學分 Credit | 一年級 Grade 1 | | 二年級 Grade 2 | | 三年級 Grade 3 | | 四年級 Grade 4 | | 五年級 Grade 5 | | 六年級 Grade 6 | | 備註 Remarks |
|--|--------------|-----------------------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|---------------|
| | | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | |
| | | 物理學實驗 Physics Laboratory | 1 | | 1 | | | | | | | | | |
| 環境衛生概論 Introduction to Environmental Health | 1 | | | 1 | | | | | | | | | | |
| 微生物學及免疫學實驗 Lab Practice in Microbiology & Immunology | 0.7 | | | | 0.7 | | | | | | | | | |
| 細胞生物學 Cell Biology | 2 | | | 2 | 2 | | | | | | | | | |
| 神經症狀學 Symptomatology of nervous system disorders | 1 | | | | | | 1 | | | | | | | |
| 醫療經濟學 Health Economics | 2 | | | | | | 2 | | | | | | | |
| 基礎醫學總論 Basic medical sciences | 2 | | | | | | | 2 | | | | | | |
| 整合醫學暨中醫學現代進展 Recent Advances in Integrative Medicine and Chinese Medicine | 2 | | | | | | | | 2 | | | | | |

| 課程名稱 Course Name | 學分 Credit | 一年級 Grade 1 | | 二年級 Grade 2 | | 三年級 Grade 3 | | 四年級 Grade 4 | | 五年級 Grade 5 | | 六年級 Grade 6 | | 備註 Remarks |
|--|--------------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|--|
| | | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | |
| 藥理學實驗 Pharmacology Lab | 1 | | | | | | | | 1 | | | | | |
| 實證醫學臨床案例討論 Evidence-based Medicine: Case Discussion | 2 | | | | | | | | | 2 | | | | |
| 醫務領導和管理 Healthcare Leadership and Management | 1 | | | | | | | | | 1 | | | | |
| 醫病關係討論團體(巴 林團體) Balint Group for Medical Students | 0.5 | | | | | | | | | 0.5 | 0.5 | | | |
| 醫用台語 Medical Taiwanese | 1 | | | | | | | | | | 1 | | | |
| 法醫學 Forensic Pathology | 0.8 | | | | | | | | | 0.8 | | | | |
| 醫師科學家研究概論 (上) Physician-Scientist Program-Career Planning (1) | 1 | 1 | | | | | | | | | | | | |
| 醫師科學家研究概論 (下) Physician-Scientist Program-Career Planning (2) | 1 | | 1 | | | | | | | | | | | |
| 醫師科學家碩士專題研 究(一) Physician Scientist Research in Master Program (1) | 3 | | | 3 | | | | | | | | | | 「醫師科 學家專題 研究」與 「醫師科 學家碩士 專 題 研 究」皆至 實驗室研 究學習， 為相同性 質課程， 同一學期 不能重複 選修。 |
| 醫師科學家碩士專題研 究(二) Physician Scientist Research in Master Program (2) | 3 | | | | 3 | | | | | | | | | |
| 醫師科學家專題研究 (一) Physician-Scientist Program-Research 1 | 3 | | | | | 3 | | | | | | | | |
| 醫師科學家專題研究 (二) Physician-Scientist Program-Research 2 | 3 | | | | | | 3 | | | | | | | |
| 醫師科學家專題研究 (三) Physician-Scientist Program-Research 3 | 3 | | | | | | | 3 | | | | | | |
| 醫師科學家專題研究 (四) Physician-Scientist Program-Research 4 | 3 | | | | | | | | 3 | | | | | |
| 醫師科學家專題研究 (五) Physician-Scientist Program-Research 5 | 3 | | | | | | | | | 3 | | | | |
| 醫師科學家專題研究 | 3 | | | | | | | | | | 3 | | | |

| 課程名稱 Course Name | 學分 Credit | 一年級 Grade 1 | | 二年級 Grade 2 | | 三年級 Grade 3 | | 四年級 Grade 4 | | 五年級 Grade 5 | | 六年級 Grade 6 | | 備註 Remarks |
|---|--------------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|----------------|----------|---------------|
| | | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | 上 1st | 下 2nd | |
| (六) Physician-Scientist Program-Research 6 | | | | | | | | | | | | | | |
| 醫師科學家暑期專題研究(一) Physician-Scientist Program-Summer Research (1) | 2 | | | | | 2 | | | | | | | | |
| 醫師科學家暑期專題研究(二) Physician-Scientist Program-Summer Research (2) | 2 | | | | | | | 2 | | | | | | |
| 醫師科學家暑期課程 (一) Physician-Scientist Program- Summer Course1 | | | | 2 | | | | | | | | | | |
| 醫師科學家暑期課程 (二) Physician-Scientist Program- Summer Course2 | | | | | | 3 | | | | | | | | |
| 醫師科學家暑期課程 (三) Physician-Scientist Program- Summer Course3 | | | | | | | | 2 | | | | | | |
| 醫師科學家暑期課程 (四) Physician-Scientist Program- Summer Course4 | | | | | | | | | | 3 | | | | |

說明：

1、本學系最低畢業學分為 245 學分，包含：

(1) 校共同課程至少 28 學分

1. 核心課程：根據本校核心課程修習辦法辦理，至少修畢 18 學分，其中基本素養課程至少 6 學分，領域課程至少 8 學分及至少修習 2 個領域。（必修普通心理學列入個人、社會與文化領域）
2. 語言與溝通課程：根據本校語言與溝通課程修習辦法辦理，至少修畢 6 學分，其中英文課程至少 4 學分。
3. 其他必修：
 - (1) 體育課程 0 學分，6 學期，依本校體育課程實施辦法辦理。
 - (2) 服務學習課程：依本校服務學習課程實施辦法辦理，需修畢通過二門「基礎服務學習課程」或一門「專業服務學習課程」。
 - (3) 學生學術及研究倫理教育課程：依本校學生學術研究倫理教育課程實施要點辦理。
 - (4) 性別平等教育線上課程：依本校性別平等教育線上課程實施要點辦理。
 - (5) 導師時間：4 學分，依本校導師制度實施辦法辦理。

(2) 系訂必修課程 217 學分；系選修課程__學分；自由彈性選修__學分。

2、必選修課程以當學期開課資料為準。

3、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。」

4、碩士班必修學分依就讀研究所規定（詳見醫師科學家組學生選修課程應行注意事項）。