

中國醫藥大學 醫學院轉譯醫學暨新藥開發研究所碩士班 選修畢業學分認定表 111 學年度入學適用

China Medical University Institute of Translational Medicine and New Drug Development--Master Program Elective for Master Program
(Applicable for 2022-2023 Enrollees)

科目名稱 Course Title	修別 Type	學分 Credits	一年級 Freshman		二年級 Sophomore		可供博士班上修 (請打勾) Available for Ph.D. Program (check)	可供學士班上修 (請打勾) Available for Undergraduate (check)	課程分類 Category	備註 Remarks
			上	下	上	下				
			1	2	1	2				
分子生物學研究法特論 (I)(Special topics on molecular biotechnology (I))	選(E)	2.0	2.0					√	所定選修(Elective Courses)	
分子與醫學應用的描述(Description of molecules with medical applications)	選(E)	2.0	2.0					√	所定選修(Elective Courses)	全英授課(English course)
天然有機產物(Molecular structure, properties and biosynthesis of organic natural products)	選(E)	2.0	2.0					√	所定選修(Elective Courses)	全英授課(English course)
生醫材料與組織工程特論(Special topics on biomaterials and tissue engineering)	選(E)	2.0	2.0					√	所定選修(Elective Courses)	全英授課(English course)
光電儀器與系統(Photonic instruments & systems)	選(E)	3.0	3.0				√	√	所定選修(Elective Courses)	
次世代定序分析特論(Special topics on next-generation sequencing analysis)	選(E)	2.0	2.0					√	所定選修(Elective Courses)	全英授課(English course)
真核生物基因轉錄與表觀調控(Mechanisms of transcriptional regulation and epigenetic control)	選(E)	1.0	1.0				√	√	所定選修(Elective Courses)	全英授課(本課程依據國外學者至本校短期交流期間開設系列課程)(English course (Depend on Prof. Cheng-Ming Chiang arrive to CMU))
細菌防禦機制與新型抗生素開發(Bacterial Defense System and Development of Novel Antibiotics)	選(E)	2.0	2.0					√	所定選修(Elective Courses)	
蛋白質結構與藥物設計(Protein structure and drug design)	選(E)	3.0	3.0					√	所定選修(Elective Courses)	
蛋白質藥物學(Protein drugs)	選(E)	3.0	3.0					√	所定選修(Elective Courses)	
雷射醫療應用(Lasers for medical applications)	選(E)	2.0	2.0				√	√	所定選修(Elective Courses)	
分子生物學研究法特論 (II)(Special topics on molecular biotechnology (II))	選(E)	2.0		2.0				√	所定選修(Elective Courses)	
以結構生物學解碼新興傳染病(Decoding emerging infectious diseases by structural biology)	選(E)	3.0		3.0					所定選修(Elective Courses)	
生物有機化學(Bioorganic chemistry)	選(E)	2.0		2.0				√	所定選修(Elective Courses)	全英授課(English course)
生醫光電特論(Special topics on biophotonics)	選(E)	3.0		3.0			√	√	所定選修(Elective Courses)	
生醫光學顯微技術(Biomedical Optical Imaging Techniques)	選(E)	3.0		3.0			√	√	所定選修(Elective Courses)	
蛋白質X光晶體繞射學(Protein X-ray crystallography)	選(E)	3.0		3.0				√	所定選修(Elective Courses)	
進階螢光顯微術：實作與分析(Advanced fluorescence microscopy: practice & analysis)	選(E)	2.0		2.0			√	√	所定選修(Elective Courses)	
製藥工程與劑型設計特論(Special topics on pharmaceutical engineering and drug)	選(E)	2.0		2.0				√	所定選修(Elective Courses)	全英授課(English course)
癌症生物學(Cancer Biology)	選(E)	2.0		2.0				√	所定選修(Elective Courses)	全英授課(English course)
藥用植物的結構與特徵(Structure & properties of medical plant components)	選(E)	2.0		2.0				√	所定選修(Elective Courses)	全英授課(English course)
藥物動力學特論(Special topics on pharmacokinetics)	選(E)	2.0		2.0				√	所定選修(Elective Courses)	全英授課(English course)
專題討論(三)(Seminar (III))	選(E)	1.0			1.0				所定選修(Elective Courses)	全英授課(English course)
新藥開發實習(New drug development internship program)	選(E)	1.0			1.0				所定選修(Elective Courses)	
藥物分子設計(Drug molecule design)	選(E)	2.0			2.0			√	所定選修(Elective Courses)	全英授課(English course)
藥理學特論(Special topics on pharmacology)	選(E)	2.0			2.0			√	所定選修(Elective Courses)	全英授課(English course)
專題討論(四)(Seminar (IV))	選(E)	1.0				1.0			所定選修(Elective Courses)	全英授課(English course)
合計 選修總學分 (Elective subtotal)		57.0	24.0	26.0	6.0	1.0				

校內注意事項

- 一、校級畢業規定
(一)須完成修讀「實驗室安全」0學分及「研究倫理」0學分課程。
(二)須通過校定碩士生英文能力鑑定標準，相關規定依本校「學生英文能力鑑定實施辦法」辦理。(外籍生免修)
(三)教學助理訓練：碩士生須完成至少1學期之教學助理訓練。(外籍生免修)
二、本學分表做為畢業應修課程學分之認定依據。

Note of CMU

- University requirement for graduation
(1)Students must take and pass the courses Research ethics and Laboratory safety. (0 credit courses)
(2)According to the regulation of CMU Students' English Proficiency Assessment, students must pass the English Proficiency requirement before graduation.
(Foreign students excluded)
(3)Teaching assistant training: All Master students must complete at least one semester of teaching assistant training.
(Foreign students excluded)
2.This list is used as the recognition basis of courses and credits required

for graduation.

Note of Institute of Translational Medicine and New Drug Development-
Note□

轉譯醫學暨新藥開發研究所碩士班注意事項

一、本研究所碩士班目標宗旨：

1. 綜合能力養成：培育學生紮實專業學科能力以外之綜合能力，包含就業力、公民力、資訊力、創新力、跨領域力、全球移動力，以適應國內外環境之變遷與落差。
2. 精實專業能力：課程含藥品研發、生產、品管、臨床試驗與行銷課程之授受，同時兼顧學生理論與實作之精進。
3. 實務導向應用：課程規劃以應用專業實務為導向，以期教學方向與產業需求能無縫接軌，協助台灣製藥產業創新研發，紮實畢業生學以致用之能力。

二、111年度入學新生實施，最低畢業學分為30學分(含必修8學分、選修16學分、碩士論文6學分)。

1. “Lecture on pharmaceutical technology (I)□(II)” are NOT full English course. Providing foreign students 2 elective credits of options instead of this course.

2. The Master program is a one-to-four-year course. Minimum credits required for graduation is 30 credits, including 12 credits from required courses (4 credits from Molecular medicine, 2 credits from Seminar and 6 credits of Master thesis research) and 18 credits from elective courses (at least 2 credits of courses from TMNDD) .

3. Besides taking the required courses as stipulated by each department in the study period, graduate students shall complete the training of the following courses as stipulated by the school:

(1) “Laboratory safety” – A school-level required course in the Master’s Program and Doctoral Program with 0 credits.

(2) “Research Ethics” - A school-level required course in the Master’s Program and Doctoral Program with 0 credits

(3) “Molecular medicine” - A college-level required course in the Master’s Program and Doctoral Program with 4 credits.

單位主管簽章：