

中國醫藥大學 醫學院轉譯醫學暨新藥開發研究所碩士班 必修畢業學分認定表 111 學年度入學適用
China Medical University Institute of Translational Medicine and New Drug Development--Master Program Requirement for Master Program
(Applicable for 2022-2023 Enrollees)

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列印日期(Date)：113年12月19日

科目名稱/課號 Course Title/Course ID	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				
分子醫學(Molecular medicine)/MPM000001	必(R)	4.0	4.0						院定必修(College Required Courses)	院級必修 全英授課(College-level English course)
專題討論(一)(Seminar (I))/MPM000006	必(R)	1.0	1.0						所定必修(Required Courses)	全英授課(English course)
專題討論(二)(Seminar (II))/MPM000007	必(R)	1.0		1.0					所定必修(Required Courses)	全英授課(English course)
製藥科技講座(一)(Lecture on pharmaceutical technology (I))/MPM000004	必(R)	1.0			1.0			√	所定必修(Required Courses)	
碩士論文(M. S. Thesis)/MPM000019	必(R)	6.0				6.0			校定必修-論文(University Required Courses-Thesis)	
製藥科技講座(二)(Lecture on pharmaceutical technology (II))/MPM000005	必(R)	1.0				1.0		√	所定必修(Required Courses)	
合計 必修總學分 (Requirement subtotal)		14.0	5.0	1.0	1.0	7.0				

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--Master Program

Note:

- 1."Lecture on pharmaceutical technology(I)(II)" are NOT full English course. Providing foreign students 2 elective courses from TMNDD 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 elective 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.

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)。

單位主管簽章：

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)

第 1 頁 / 共 2 頁

列印日期(Date): 113年12月19日

科目名稱/課號 Course Title/Course ID	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))/MPM000008	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)/MPM000023	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)/MPM000022	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)/MPM000010	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)/MPM000026	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)/MPM000035	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)/MPM000024	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)/MPM000030	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)/MPM000020	選(E)	3.0	3.0					√	所定選修(Elective Courses)	
蛋白質藥物學(Protein drugs)/MPM000021	選(E)	3.0	3.0					√	所定選修(Elective Courses)	
雷射醫療應用(Lasers for medical applications)/MPM000033	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))/MPM000014	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)/MPM000028	選(E)	3.0		3.0					所定選修(Elective Courses)	
生物有機化學(Bioorganic chemistry)/MPM000012	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)/MPM000025	選(E)	3.0		3.0				√	所定選修(Elective Courses)	
生醫光學顯微技術(Biomedical Optical Imaging Techniques)/MPM000032	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)/MPM000027	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)/MPM000034	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)/MPM000015	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)/MPM000031	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)/MPM000029	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)/MPM000011	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))/MPM000002	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)/MPM000018	選(E)	1.0			1.0				所定選修(Elective Courses)	
藥物分子設計(Drug molecule design)/MPM000036	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)/MPM000016	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))/MPM000003	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				

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