

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 115 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 2026-2027 Enrollees)

科目名稱/課號 Course Title/Course ID	修別 Type	學分 Credits	一年級		二年級		可供博士班下修 (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
			Freshman		Sophomore					
			上 1	下 2	上 1	下 2				
分子醫學(Molecular medicine)／BAD000013	必(R)	4.0	4.0						院定必修(College Required Courses)	全英授課(English course)
專題討論(Seminar)／BAD000015	必(R)	1.0	1.0						所定必修(Required Courses)	全英授課(English course)
癌症生物學(Cancer Biology)／BAD000019	必(R)	2.0	2.0					√	所定必修(Required Courses)	全英授課(English course)
專題討論(Seminar)／BAD000016	必(R)	1.0		1.0					所定必修(Required Courses)	全英授課(English course)
碩士論文(M. S. Thesis)／MPM000019	必(R)	6.0				6.0			校定必修-論 文(University Required Courses-Thesis)	
合計 必修總學分 (Requirement subtotal)		14.0	7.0	1.0		6.0				

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(0 credit) and Laboratory Safety (0 credit).
- (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.

轉譯醫學暨新藥開發研究所碩士班注意事項

Note of Institute of Translational Medicine and New Drug
Development--Master Program

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、114年度入學新生實施，課程為期一至四年，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)。包含分子醫學4學分、專題討論2學分、癌症生物學2學分，碩士論文研究6學分，以及選修課程18學分。

三、除了在修業期間須修習各系所規定的必修課程外，研究生還須完成下列由學校規定的課程訓練：

- (1) 「實驗室安全」－碩士班與博士班之校級必修課程，0學分。
- (2) 「研究倫理」－碩士班與博士班之校級必修課程，0學分。
- (3) 「分子醫學」－碩士班與博士班之院級必修課程，4學分。

1.Objectives of the Master's Program:

- (1)Development of Comprehensive Competencies: To cultivate students not only with solid professional knowledge but also with comprehensive abilities, including employability, civic literacy, information literacy, innovation, interdisciplinary collaboration, and global mobility, enabling them to adapt to changes and challenges in both domestic and international environments.
- (2)Enhancement of Professional Expertise: The curriculum covers drug development, manufacturing, quality control, clinical trials, and marketing, aiming to strengthen both theoretical understanding and practical skills.
- (3)Practice-Oriented Application: The curriculum is designed with a focus on practical application in the pharmaceutical field, ensuring seamless alignment between academic training and industry needs. This helps promote innovation in Taiwan's pharmaceutical industry and equips graduates with the ability to apply what they have learned effectively.

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, 2 credits from Cancer biology and 6 credits of Master thesis research) and 18 credits from elective courses (including “Seminar III & IV ”).

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：

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 115 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 2026-2027 Enrollees)

科目名稱/課號 Course Title/Course ID	修別 Type	學分 Credits	一年級 Freshman		二年級 Sophomore		可供博士班下修 (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 bi methodology (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)
生醫光電特論(Special topics on biophotonics)／MPM000040	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)
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))
雷射醫療應用(Lasers for medical applications)／GCM000006	選(E)	2.0	2.0						所定選修(Elective Courses)	
臨床癌症與轉譯醫學(Clinical oncology & translation medicine)／BAD000014	選(E)	2.0	2.0						所定選修(Elective Courses)	
轉譯醫學暨生醫製藥科技講座(一)(Lecture of translational medicine & biomedical pharmaceutical technology I)／MPM000038	選(E)	1.0	1.0						所定選修(Elective Courses)	
分子生物學研究法特論 (II)(Special topics on molecular bi methodology (II))／MPM000014	選(E)	2.0		2.0				√	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)
生醫光學顯微技術(Biomedical Optical Imaging Techniques)／MPM000032	選(E)	3.0		3.0			√	√	所定選修(Elective Courses)	全英授課(English course)
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)
轉譯醫學暨生醫製藥科技講座(二)(Lecture of translational medicine & biomedical pharmaceutical technology II)／MPM000039	選(E)	1.0		1.0					所定選修(Elective Courses)	
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(Seminar)／BAD000017	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(Seminar)／BAD000018	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)		39.0	18.0	14.0	6.0	1.0				

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- (2) 「研究倫理」－碩士班與博士班之校級必修課程，0學分。
- (3) 「分子醫學」－碩士班與博士班之院級必修課程，4學分。

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- (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：