

中國醫藥大學 生命科學院生物化學暨分子生物研究所碩士班 必修畢業學分認定表 113 學年度入學適  
China Medical University Graduate Institute of Biochemistry and Molecular Biology Requirement for Master Program (Applicable for 2024-2025  
Enrollees)

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列印日期(Date): 113年12月17日

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				
分子醫學(Molecular medicine)	必(R)	2.0	2.0					√	院定必修(College Required Courses )	全英文授課(English course)
專題討論(Seminar)	必(R)	1.0	1.0					√	院定必修(College Required Courses )	選課系統一年級請選班別A; 二年級請選班別B; 外籍生請選班別C(For international students, please select Seminar C offered by the College of Life Sciences.)
進階分子細胞生物學(Advanced molecular cell biology)	必(R)	2.0	2.0					√	院定必修(College Required Courses )	外籍生請修「進階生物技術原理與應用」進行抵免(International students can take the「Advanced principles and applications of biotechnology」for transferring credits.)
專題討論(Seminar)	必(R)	1.0		1.0				√	院定必修(College Required Courses )	選課系統一年級請選班別A; 二年級請選班別B; 外籍生請選班別C(For international students, please select Seminar C offered by the College of Life Sciences.)
專題討論(Seminar)	必(R)	1.0			1.0				院定必修(College Required Courses )	選課系統一年級請選班別A; 二年級請選班別B; 外籍生請選班別C(For international students, please select Seminar C offered by the College of Life Sciences.)
轉譯醫學暨生醫製藥科技講座(一)(Lecture of Translational Medicine & Biomedical Pharmaceutical(I))	必(R)	1.0			1.0		√	√	所定必修(Required Courses )	外籍生請修「現代生物醫學講座(二)」替代(International students can take Lecture on modern biomedicine (II) (Full English course) for alternative course.)
專題討論(Seminar)	必(R)	1.0				1.0			院定必修(College Required Courses )	選課系統一年級請選班別A; 二年級請選班別B; 外籍生請選班別C(For international students, please select Seminar C offered by the College of Life Sciences.)
碩士論文(M. S. thesis)	必(R)	6.0				6.0			校定必修(University Required Courses)	
轉譯醫學暨生醫製藥科技講座(二)(Lecture of Translational Medicine & Biomedical Pharmaceutical(II))	必(R)	1.0				1.0	√	√	所定必修(Required Courses )	外籍生請修「現代生物醫學講座(四)」替代(International students can take Lecture on modern biomedicine (IV) (Full English course) for alternative course.)
合計 必修總學分 (Requirement subtotal)		16.0	5.0	1.0	2.0	8.0				

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

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

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。

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.

#### 生物化學暨分子生物研究所碩士班注意事項

研究所碩士班注意事項：

一、教育目標:本所從生物、醫學、化學、結構到藥物研發之研究與教學均有涵蓋。培養生化及分生領域優秀之基礎科學研究人才，除充實學生在專業生化及分生學上面的知識與能力外，更著重強調本校各主要研究範圍內基礎專業知識，使其具備良好之跨領域合作與獨立研究的能力，為將來進入博士班深造或進入業界做準備。

二、113年度入學新生實施。本所碩士班修業一至四年，最低畢業學分為30學分。含院級及所級必修10學分，選修14學分，碩士論文6學分。

三、研究生修業期間除修習各系所規定應修課程外，尚須完成下列校定課程之研修：(1)「實驗室安全」-碩博士班校級必修 0 學分。

(2)「研究倫理」-碩博士班校級必修 0 學分。

四、畢業前必須通過英文鑑定，方能畢業。相關規定依本校「學生英文能力鑑定實施辦法」辦理。

#### Note of Graduate Institute of Biochemistry and Molecular Biology

1. The Master's Institute of Biochemistry and Molecular Biology (BMB) is a one-to-four-year program. Minimum credits required for graduation is 30 credits, including 10 credits from required courses (both College and Institute required courses), 14 credits from elective courses and 6 credits of Master's thesis research.

2. Besides taking the required courses as stipulated by each department in the study period, BMB 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. "Lecture on pharmaceutical technology (I)(II)" are NOT full English course. Providing foreign students 2 elective credits of options instead of this course.

單位主管簽章：

中國醫藥大學 生命科學院生物化學暨分子生物研究所碩士班 選修畢業學分認定表 113 學年度入學適

China Medical University Graduate Institute of Biochemistry and Molecular Biology Elective for Master Program (Applicable for 2024-2025 Enrollees)

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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				
RNA修飾特論(一)(Special topics on RNA modifications (I))	選(E)	1.0	1.0						所定選修(Elective Courses)	全英文授課(English course)
生物科技實驗方法與原理(Methods and principles of biotechnology experiments)	選(E)	2.0	2.0						所定選修(Elective Courses)	
生物資訊資料庫(Bioinformatic database)	選(E)	2.0	2.0						所定選修(Elective Courses)	
高等蛋白質體學暨轉譯醫學應用(Advanced proteomics & translational medicine)	選(E)	2.0	2.0						所定選修(Elective Courses)	
細胞代謝與免疫治療特論(一)(Topics in cancer cell metabolism & immunotherapy I)	選(E)	2.0	2.0						所定選修(Elective Courses)	全英文授課(English course)
蛋白質純化與分析特論(Special topics on protein purification & analysis)	選(E)	2.0	2.0			√	√		所定選修(Elective Courses)	全英文授課(English course)
質譜儀特論(Special topics on mass spectrometry metabolomics)	選(E)	2.0	2.0						所定選修(Elective Courses)	
RNA修飾特論(二)(Special topics on RNA modifications (II))	選(E)	1.0		1.0					所定選修(Elective Courses)	全英文授課(English course)
內分泌學:生物機制及應用(Endocrinology: Biological Mechanisms & Applications)	選(E)	2.0		2.0					所定選修(Elective Courses)	全英文授課(English course)
生物冷凍電子顯微鏡特論(Special topics on cryogenic electron microscopy for biologists)	選(E)	2.0		2.0			√		所定選修(Elective Courses)	全英文授課(English course)
抗體工程特論(Special topics on antibody engineering)	選(E)	2.0		2.0					所定選修(Elective Courses)	
高等代謝體學(Advanced metabolomics)	選(E)	2.0		2.0					所定選修(Elective Courses)	
細胞代謝與免疫治療特論(二)(Topics in cancer cell metabolism & immunotherapy II)	選(E)	2.0		2.0					所定選修(Elective Courses)	全英文授課(English course)
細胞生物學中的生物物理方法(Biophysical methods in cell biology)	選(E)	2.0		2.0					所定選修(Elective Courses)	全英文授課(English course)
獨立研究與學術優勢養成(Excel in independent research & academic development)	選(E)	1.0		1.0			√		所定選修(Elective Courses)	全英文授課(English course)
癌症生物學(Cancer biology)	選(E)	2.0		2.0					所定選修(Elective Courses)	全英文授課(English course)
RNA修飾特論(三)(Special topics on RNA modifications (III))	選(E)	1.0			1.0				所定選修(Elective Courses)	全英文授課(English course)
RNA修飾特論(四)(Special topics on RNA modifications (IV))	選(E)	1.0				1.0			所定選修(Elective Courses)	全英文授課(English course)
合計 選修總學分 (Elective subtotal)		31.0	13.0	16.0	1.0	1.0				

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