

中國醫藥大學 醫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 115 學年度入學適用

China Medical University Graduate Institute of Biochemistry and Molecular Biology 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 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)／BAD000013	必(R)	4.0	4.0					√	院定必修(College Required Courses)	全英文授課，由醫學院開課。(Full English. Offered by the College of Medicine.)
專題討論(Seminar)／BAD000015	必(R)	1.0	1.0					√	所定必修(Required Courses)	由醫學院開課，僅供生化、細生、生科學生修課。一年級請選班別C；二年級請選班別D；外籍生請選班別E或F。(Offered by the College of Medicine and available only to students in the Institutes of Biochemistry and Molecular Biology, Cell Biology, and Biological Science and Technology. First-year students should select Class C; second-year students should select Class D; international students should select Class E or F.)
專題討論(Seminar)／BAD000016	必(R)	1.0		1.0				√	所定必修(Required Courses)	由醫學院開課，僅供生化、細生、生科學生修課。一年級請選班別C；二年級請選班別D；外籍生請選班別E或F。(Offered by the College of Medicine and available only to students in the Institutes of Biochemistry and Molecular Biology, Cell Biology, and Biological Science and Technology. First-year students should select Class C; second-year students should select Class D; international students should select Class E or F.)
專題討論(Seminar)／BAD000017	必(R)	1.0			1.0				所定必修(Required Courses)	由醫學院開課，僅供生化、細生、生科學生修課。一年級請選班別C；二年級請選班別D；外籍生請選班別E或F。(Offered by the College of Medicine and available only to students in the Institutes of Biochemistry and Molecular Biology, Cell Biology, and Biological Science and Technology. First-year students should select Class C; second-year students should select Class D; international students should select Class E or F.)

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				
專題討論(Seminar)／BAD000018	必(R)	1.0				1.0			所定必修(Required Courses)	由醫學院開課，僅供生化、細生、生科學生修課。一年級請選班別C；二年級請選班別D；外籍生請選班別E或F。(Offered by the College of Medicine and available only to students in the Institutes of Biochemistry and Molecular Biology, Cell Biology, and Biological Science and Technology. First-year students should select Class C; second-year students should select Class D; international students should select Class E or F.)
碩士論文(M. S. thesis)／MOM000009	必(R)	6.0				6.0			校定必修(University Required Courses)	無須選課，於完成論文後自動認列學分。(No registration required; credits awarded upon thesis completion.)
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(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.

生物化學暨分子生物研究所碩士班注意事項

1. 教育目標:(1)本所研究與教學涵蓋從生物、醫學、化學、結構到藥物研發。(2)孕育生化及分生領域優秀之基礎科學研究人才。(3)培養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。
2. 適用115年度入學生。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8學分，碩士論文6學分，選修16學分。
3. 選定指導教授後請繳交「指導教授同意書」。本所每位學生至多由兩位指導教授共同指導，其中一位應為本所專任教師。
4. 根據「生物化學暨分子生物研究所碩士班學位授予暨學位考試辦法」，申請碩士學位考試前，需完成論文初稿，並於相關生物醫學會議以口頭報告或壁報形式發表相關研究(例如:臺灣國際創新生物醫學峰會ICABS)。
5. 研究生修業期間除修習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
 - (3)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)
6. 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)

單位主管簽章：

Note of Graduate Institute of Biochemistry and Molecular Biology

1.Educational Objectives

- The Institute's research and teaching cover a wide range of disciplines, including biology, medicine, chemistry, structural biology, and drug development.
- The program aims to cultivate outstanding researchers in the fields of biochemistry and molecular biology,
- The Institute fosters interdisciplinary collaboration and develops independent research skills, preparing students for doctoral studies or careers in the biomedical industry.

2.For students enrolled in 2026.The Master's program is one to four years. The minimum graduation requirement is 30 credits, including:

- College and institute-level required courses: 8 credits
- Master's thesis: 6 credits
- Elective courses: 16 credits

3.After selecting an advisor, students must submit an Advisor Consent Form.

Each student may have up to two co-advisors, and at least one advisor must be a full-time faculty member of the Institute.

4.Students must complete a draft of their thesis before applying for the Master's Degree Examination.

In addition, students are required to present their research findings at any relevant biomedical conference in the form of an oral presentation or poster presentation (e.g., the International Conference of Asian Biomedical Sciences (ICABS)).

中國醫藥大學 醫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 115 學年度入學適用

China Medical University Graduate Institute of Biochemistry and Molecular Biology 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				
RNA修飾特論(一)(Special topics on RNA modifications (I))/MOM000030	選(E)	1.0	1.0						所定選修(Elective Courses)	全英文授課，由生物醫學所博士班開課。(Full English. Offered by the Ph.D in Graduate Institute of Biomedical Sciences.)
生物科技實驗方法與原理(Methods and principles of biotechnology experiments)/BIM000010	選(E)	2.0	2.0						所定選修(Elective Courses)	由生物科技碩士班開課。
高等蛋白質體學暨轉譯醫學應用(Advanced proteomics & translational medicine)/MOM000017	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)/MOM000034	選(E)	2.0	2.0						所定選修(Elective Courses)	全英文授課(Full English.)
蛋白質純化與分析特論(Special topics on protein purification & analysis)/MOM000007	選(E)	2.0	2.0					√	所定選修(Elective Courses)	全英文授課(Full English.)
進階分子細胞生物學(Advanced molecular cell biology)/BID000007	選(E)	2.0	2.0						所定選修(Elective Courses)	由醫學院開課，外籍生請選A班，本籍生請選B班。(Offered by the College of Medicine. International students please select Class A.)
質譜儀特論(Special topics on mass spectrometry metabolomics)/MOM000015	選(E)	2.0	2.0						所定選修(Elective Courses)	
醫學免疫學特論(一)(Special Topics on Medical Immunology (I))/MOM000042	選(E)	2.0	2.0					√	所定選修(Elective Courses)	全英文授課(Full English.)
RNA修飾特論(二)(Special topics on RNA modifications (II))/MOM000031	選(E)	1.0		1.0				√	所定選修(Elective Courses)	全英文授課，由生物醫學所博士班開課。(Full English. Offered by the Ph.D in Graduate Institute of Biomedical Sciences.)
內分泌學:生物機制及應用(Endocrinology: Biological Mechanisms & Applications)/MOM000039	選(E)	2.0		2.0				√	所定選修(Elective Courses)	全英文授課(Full English.)
生物冷凍電子顯微鏡特論(Special topics on cryogenic electron microscopy for biologists)/MOM000008	選(E)	2.0		2.0				√	所定選修(Elective Courses)	全英文授課(Full English.)
生物資訊資料庫(Bioinformatic database)/MOM000037	選(E)	2.0		2.0					所定選修(Elective Courses)	
抗體工程特論(Special topics on antibody engineering)/MOM000029	選(E)	2.0		2.0					所定選修(Elective Courses)	
高等代謝體學(Advanced metabolomics)/MOM000016	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)/MOM000035	選(E)	2.0		2.0					所定選修(Elective Courses)	全英文授課(Full English.)
細胞生物學中的生物物理方法(Biophysical methods in cell biology)/MOM000036	選(E)	2.0		2.0					所定選修(Elective Courses)	全英文授課(Full English.)
結構生物學解析軟體應用(Structural Biology Software Tools)/MOM000040	選(E)	2.0		2.0				√	所定選修(Elective Courses)	全英文授課(Full English.)
獨立研究與學術優勢養成(Excel in independent research & academic development)/MOM000028	選(E)	1.0		1.0				√	所定選修(Elective Courses)	全英文授課(Full English.)
癌症生物學(Cancer biology)/MOM000019	選(E)	2.0		2.0					所定選修(Elective Courses)	全英文授課(Full English.)
醫學免疫學特論(二)(Special Topics on Medical Immunology (II))/MOM000043	選(E)	2.0		2.0				√	所定選修(Elective Courses)	全英文授課(Full English.)
RNA修飾特論(三)(Special topics on RNA modifications (III))/MOM000032	選(E)	1.0			1.0				所定選修(Elective Courses)	全英文授課，由生物醫學研究所博士班開課。(Full English. Offered by the Ph.D in Graduate Institute of Biomedical Sciences.)
轉譯醫學暨生醫製藥科技講座(一)(Lecture of Translational Medicine & Biomedical Pharmaceutical(I))/MOM000003	選(E)	1.0			1.0		√	√	所定選修(Elective Courses)	
RNA修飾特論(四)(Special topics on RNA modifications (IV))/MOM000033	選(E)	1.0				1.0			所定選修(Elective Courses)	全英文授課，由生物醫學研究所開課。(Full English. Offered by the Ph.D in Graduate Institute of Biomedical Sciences.)

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 1	下 2	上 1	下 2				
轉譯醫學暨生醫製藥科技講座(二)(Lecture of Translational Medicine & Biomedical Pharmaceutical(II))/MOM000004	選(E)	1.0				1.0	√	√	所定必修(Required Courses)	
合計 選修總學分 (Elective subtotal)		41.0	15.0	22.0	2.0	2.0				

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。

生物化學暨分子生物研究所碩士班注意事項

- 1.教育目標:(1)本所研究與教學涵蓋從生物、醫學、化學、結構到藥物研發。(2)孕育生化及分生領域優秀之基礎科學研究人才。(3)培養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。
- 2.適用115年度入學生。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8學分，碩士論文6學分，選修16學分。
- 3.選定指導教授後請繳交「指導教授同意書」。本所每位學生至多由兩位指導教授共同指導，其中一位應為本所專任教師。
- 4.根據「生物化學暨分子生物研究所碩士班學位授予暨學位考試辦法」，申請碩士學位考試前，需完成論文初稿，並於相關生物醫學會議以口頭報告或壁報形式發表相關研究(例如:臺灣國際創新生物醫學峰會ICABS)。
- 5.研究生修業期間除修習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
(3)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)
- 6.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)

單位主管簽章：

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.

Note of Graduate Institute of Biochemistry and Molecular Biology

- 1.Educational Objectives
- The Institute’s research and teaching cover a wide range of disciplines, including biology, medicine, chemistry, structural biology, and drug development.
- The program aims to cultivate outstanding researchers in the fields of biochemistry and molecular biology,
- The Institute fosters interdisciplinary collaboration and develops independent research skills, preparing students for doctoral studies or careers in the biomedical industry.
- 2.For students enrolled in 2026.The Master’s program is one to four years. The minimum graduation requirement is 30 credits, including:
● College and institute-level required courses: 8 credits
● Master’s thesis: 6 credits
● Elective courses: 16 credits
- 3.After selecting an advisor, students must submit an Advisor Consent Form.
Each student may have up to two co-advisors, and at least one advisor must be a full-time faculty member of the Institute.
- 4.Students must complete a draft of their thesis before applying for the Master’s Degree Examination.
In addition, students are required to present their research findings at any relevant biomedical conference in the form of an oral presentation or poster presentation (e.g., the International Conference of Asian Biomedical Sciences (ICABS)).