

中國醫藥大學 生命科學院生物科技學系碩士班 必修畢業學分認定表 113 學年度入學適用

China Medical University Graduate Institute of Biological Science and Technology Requirement for Master Program (Applicable for 2024-2025 Enrollees)

第 1 頁 / 共 2 頁

列印日期(Date)：113年12月19日

| 科目名稱/課號<br>Course Title/Course ID                    | 修別<br>Type | 學分<br>Credits | 一年級<br>Freshman |     | 二年級<br>Sophomore |     | 可供博士班上修<br>(請打勾)<br>Available for Ph.D.<br>Program (check) | 可供學士班上修<br>(請打勾)<br>Available for<br>Undergraduate (check) | 課程分類<br>Category                            | 備註<br>Remarks  |
|--|------------|---------------|-----------------|-----|------------------|-----|--|--|---|--|
|  |            |               | 上               | 下   | 上                | 下   |  |  |   |  |
|  |            |               | 1               | 2   | 1                | 2   |  |  |   |  |
| 分子醫學(Molecular medicine)/BID000006                   | 必(R)       | 2.0           | 2.0             |     |                  |     | √  | √  | 院定必修(College Required Courses)              | 全英授課(Full English)   |
| 功能性基因體學(Functional genomics)/78M000038               | 必(R)       | 2.0           | 2.0             |     |                  |     |  |  | 所定必修(Required Courses)                      | 外籍生可修「高等蛋白質體學暨轉譯醫學應用」來進行抵免(Foreign students can take "Advanced proteomics & translational medicine" for course exemption.)     |
| 專題討論(Seminar)/BID000009                              | 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)/BID000007 | 必(R)       | 2.0           | 2.0             |     |                  |     | √  | √  | 院定必修(College Required Courses)              | 外籍生可修「進階癌症生物學與抗癌藥物」來進行抵免(Foreign students can take "Advanced cancer oncology & anti-cancer drug" for course exemption.)        |
| 專題討論(Seminar)/BID000011                              | 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)/BID000012                              | 必(R)       | 1.0           |                 |     | 1.0              |     |  |  | 所定必修(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)/BID000013                              | 必(R)       | 1.0           |                 |     |                  | 1.0 |  |  | 所定必修(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)/78M000071                         | 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)                      |            | 16.0          | 7.0             | 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

中國醫藥大學 生命科學院生物科技學系碩士班 必修畢業學分認定表 113 學年度入學適用

China Medical University Graduate Institute of Biological Science and Technology Requirement for Master Program (Applicable for 2024-2025 Enrollees)

for graduation.

生物科技學系碩士班注意事項

一、教育目標：1. 藉由專業知識之精進以創新近代生物科技之應用

2. 培養頂尖專業生技產學界之研究人才

二、113學年度入學新生實施。本系碩士班修業2年，最低畢業學分為30學分，含院級必修「分子醫學」2學分、「進階分子細胞生物學」2學分和系必修6學分，選修14學分，碩士論文6學分。

單位主管簽章：

Note of Graduate Institute of Biological Science and Technology

Note of Graduate Institute of Biological Science and Technology

\*The master program is a two-year course. Minimum credits required for graduation is 30 credits, including 10 credits from required courses (including College-"Molecular medicine", "Advanced molecular cell biology" and Institute-level courses), 14 credits from elective courses and 6 credits of doctoral thesis research.

中國醫藥大學 生命科學院生物科技學系碩士班 選修畢業學分認定表 113 學年度入學適用

China Medical University Graduate Institute of Biological Science and Technology Elective for Master Program (Applicable for 2024-2025 Enrollees)

第 1 頁 / 共 2 頁

列印日期(Date)：113年12月19日

| 科目名稱/課號<br>Course Title/Course ID   | 修別<br>Type | 學分<br>Credits | 一年級<br>Freshman |      | 二年級<br>Sophomore |   | 可供博士班下修<br>(請打勾)<br>Available for Ph.D.<br>Program (check) | 可供學士班上修<br>(請打勾)<br>Available for<br>Undergraduate (check) | 課程分類<br>Category       | 備註<br>Remarks       |
|---|------------|---------------|-----------------|------|------------------|---|--|--|------------------------|---------------------|
|   |            |               | 上               | 下    | 上                | 下 |  |  |                        |                     |
|   |            |               | 1               | 2    | 1                | 2 |  |  |                        |                     |
| 人類疾病動物模式(Animal models of human disease)/78M000092                              | 選(E)       | 2.0           | 2.0             |      |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 分子心臟學(Molecular cardiology)/78M000016   | 選(E)       | 2.0           | 2.0             |      |                  |   |  | √  | 所定選修(Elective Courses) | 全英文授課(Full English) |
| 分子技術學特論(Special topics on molecular technology)/78M000049                       | 選(E)       | 2.0           | 2.0             |      |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 生物技術專題講座(一)(Lecture on biotechnology (I))/78M000050                             | 選(E)       | 1.0           | 1.0             |      |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 生物科技實驗方法與原理(Methods and principles of biotechnology experiments)/78M000100      | 選(E)       | 2.0           | 2.0             |      |                  |   |  |  | 所定選修(Elective Courses) |                     |
| 生物統計學特論(Special topics on biostatistics)/78M000078                              | 選(E)       | 2.0           | 2.0             |      |                  |   |  |  | 所定選修(Elective Courses) |                     |
| 生物辨證(Biometrics)/78M000099  | 選(E)       | 2.0           | 2.0             |      |                  |   |  |  | 所定選修(Elective Courses) |                     |
| 生態系變遷與人類健康專題(Special issue on ecosystem change & human health)/78M000096        | 選(E)       | 2.0           | 2.0             |      |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 奈米醫學特論(Special topics on nanomedicine)/78M000058                                | 選(E)       | 2.0           | 2.0             |      |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 基因藥物與生技(Gene drugs & biotechnology)/78M000072                                   | 選(E)       | 2.0           | 2.0             |      |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 智財權法規(Intellectual property rights laws)/78M000083                              | 選(E)       | 1.0           | 1.0             |      |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 酵素學特論(Special topics on enzymology)/78M000074                                   | 選(E)       | 2.0           | 2.0             |      |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 癌症化學預防特論(Special topics on cancer chemoprevention)/78M000019                    | 選(E)       | 1.0           | 1.0             |      |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 生技產業特論(Special topics on biotechnology industry)/78M000033                      | 選(E)       | 2.0           |                 | 2.0  |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 生物分子修飾技術(Bioconjugation chemistry)/78M000085                                    | 選(E)       | 2.0           |                 | 2.0  |                  |   |  | √  | 所定選修(Elective Courses) | 全英文授課(Full English) |
| 生物技術專題講座(二)(Lecture on biotechnology (II))/78M000051                            | 選(E)       | 1.0           | 1.0             |      |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 生物材料和生物醫學應用(Biomaterials and biomedical applications)/78M000097                 | 選(E)       | 2.0           |                 | 2.0  |                  |   |  | √  | 所定選修(Elective Courses) | 全英文授課(Full English) |
| 生態毒理學(Ecotoxicology)/78M000081  | 選(E)       | 2.0           |                 | 2.0  |                  |   |  | √  | 所定選修(Elective Courses) | 全英文授課(Full English) |
| 生醫流體力學(Biofluid dynamics)/78M000028   | 選(E)       | 2.0           |                 | 2.0  |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 生醫影像原理與應用(Biomedical imaging : principals & applications)/78M000094             | 選(E)       | 2.0           |                 | 2.0  |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 表像遺傳學(Epigenetics)/78M000027  | 選(E)       | 2.0           |                 | 2.0  |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 細胞自噬研究特論(Special topics on autophagy)/78M000093                                 | 選(E)       | 2.0           |                 | 2.0  |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 蛋白質轉譯後修飾特論(Special topics on protein post-translational modification)/78M000098 | 選(E)       | 2.0           |                 | 2.0  |                  |   |  |  | 所定選修(Elective Courses) |                     |
| 新藥開發流程(New drug development flow)/78M000082                                     | 選(E)       | 1.0           |                 | 1.0  |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 腫瘤生物學特論(Special topics on cancer biology)/78M000034                             | 選(E)       | 1.0           |                 | 1.0  |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 酵素動力學(Enzyme kinetics)/78M000036  | 選(E)       | 2.0           |                 | 2.0  |                  |   |  | √  | 所定選修(Elective Courses) |                     |
| 免疫學特論(Special topics on immunology)/78M000052                                   | 選(E)       | 2.0           |                 |      | 2.0              |   |  | √  | 所定選修(Elective Courses) |                     |
| 合計 選修總學分 (Elective subtotal)  |            | 48.0          | 23.0            | 23.0 | 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。

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.

生物科技學系碩士班注意事項

- 一、教育目標：1. 藉由專業知識之精進以創新近代生物科技之應用  
2. 培養頂尖專業生技產學界之研究人才
- 二、113學年度入學新生實施。本系碩士班修業2年，最低畢業學分為30學分，含院級必修「分子醫學」2學分、「進階分子細胞生物學」2學分和系必修6學分，選修14學分，碩士論文6學分。

單位主管簽章：

Note of Graduate Institute of Biological Science and Technology

Note of Graduate Institute of Biological Science and Technology  
\*The master program is a two-year course. Minimum credits required for graduation is 30 credits, including 10 credits from required courses (including College-"Molecular medicine", "Advanced molecular cell biology"and Institute-level courses), 14 credits from elective courses and 6 credits of doctoral thesis research.