

中國醫藥大學 生命科學院生物科技學系博士班 必修 畢業學分認定表 112 學年度入學適用
China Medical University Graduate Institute of Biological Science and Technology Requirement for Ph.D. Program (Applicable for 2023-2024 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 1 st year		二年級 2 nd year		課程分類 Category	備註 Remarks
			上 1	下 2	上 1	下 2		
分子醫學(Molecular medicine)/D0D000028	必(R)	2.0	2.0				院定必修(College Required Courses)	全英文課程(Full English)
專題討論(一)(Seminar(I))/D0D000001	必(R)	1.0	1.0				所定必修(Required Courses)	全英文課程(Full English)
進階分子細胞生物學(Advanced molecular cell biology)/D0D000021	必(R)	2.0	2.0				院定必修(College Required Courses)	院級必修課程，碩、博士班合班上課(由博士班開課)，外籍生可修「進階癌症生物學與抗癌藥物-2學分」來進行抵免。(College Required Courses, International students can take 「Advanced cancer oncology & anti-cancer drug」for transferring credits))
專題討論(二)(Seminar (II))/D0D000002	必(R)	1.0		1.0			所定必修(Required Courses)	全英文課程(Full English)
專題討論(三)(Seminar (III))/D0D000003	必(R)	1.0			1.0		所定必修(Required Courses)	全英文課程(Full English)
專題討論(四)(Seminar (IV))/D0D000004	必(R)	1.0				1.0	所定必修(Required Courses)	全英文課程(Full English)
博士論文(Ph. D. Dissertation)/D0D000018	必(R)	12.0				12.0	校定必修-論文(University Required Courses-Thesis)	
合計 必修總學分(Requirement subtotal)		20.0	5.0	1.0	1.0	13.0		

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、「研究倫理」0學分及「現代生物醫學講座」4學分課程。
- (二)須通過校定博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：博士生須完成至少2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。

生物科技學系博士班注意事項

- 一、教育目標：1. 以生物科技之創新研究為基礎
2. 培育高級生醫領域之專門研究人才
- 二、112學年度入學新生實施。本系博士班修業3年，最低畢業學分為30學分，含校級必修「現代生物醫學講座」4學分、院級必修「分子醫學」2學分、「進階分子細胞生物學」2學分 and 系必修4學分，選修6學分，博士論文12學分。
- 三、依中國醫藥大學學生逕修讀博士學位辦法第七條規定：核准逕修讀博士學位之學士學位應屆畢業生至少應修滿36學分，論文學分另計；碩士班學生至少應修滿30學分（含碩士班期間所修學分數，至多採計12學分），論文學分另計；其修讀課程、成績考查及修業年限、學位審查等，自轉入博士班起，悉比照博士班當學年度新生辦理。

Note of CMU

- 1.University requirement for graduation.
- (1)Students must take and pass the courses: Research Ethics (0 credit), Laboratory Safety (0 credit), and Lecture on Modern Biomedicine (4 credits).
- (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 PhD students must complete at least two 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 Biological Science and Technology

- Note of Graduate Institute of Biological Science and Technology
- *The doctoral program is a two-to-seven-year course. Minimum credits required for graduation is 30 credits, including 8 credits from required courses (including School-, College-, and Institute-level courses), 6 credits from elective courses and 12 credits of doctoral thesis research.
- *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) "Lecture on Modern Biomedicine" - A school-level required course in the Doctoral Program with 4 credits.
- (4) "Molecular medicine" - A college-level required course in the Master's Program and Doctoral Program with 2 credits.
- (5) "Advanced molecular cell biology" – A college-level required course in the Master's Program and Doctoral Program with 2 credits. But it is Chinese , use "Advanced cancer oncology & anti-cancer drug" to do the Alternative Curriculum Application.

單位主管簽章：

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高等免疫生技學(Advanced immunology & bio-technology)/D0D000011	選(E)	2.0	2.0				所定選修(Elective Courses)	
貴重儀器原理與實習(practice of biomedical instruments)/D0D000030	選(E)	2.0	2.0				所定選修(Elective Courses)	
新藥開發之智財權規範(Intellectual property rights and regulations of drug development)/D0D000019	選(E)	1.0	1.0				所定選修(Elective Courses)	
高等訊息傳遞路徑(Advanced signal transduction)/D0D000012	選(E)	2.0		2.0			所定選修(Elective Courses)	
進階微生物致病機轉(Advanced Microbial Pathogenesis)/D0D000024	選(E)	2.0		2.0			所定選修(Elective Courses)	全英文課程(Full English)
進階癌症生物學與抗癌藥物(Advanced cancer oncology & anti-cancer drug)/D0D000014	選(E)	2.0		2.0			所定選修(Elective Courses)	全英文課程(Full English)
藥物設計和作用(Drug design and action)/D0D000027	選(E)	2.0		2.0			所定選修(Elective Courses)	全英文課程(Full English)
高等生物晶片技術(Advanced biochip technology)/D0D000017	選(E)	2.0			2.0		所定選修(Elective Courses)	
成功生技產業創業家之專題講座(Lecture on successful biotech entrepreneurship)/D0D000020	選(E)	1.0				1.0	所定選修(Elective Courses)	
高等心臟血管生物學(Advanced cardiovascular biology)/D0D000016	選(E)	2.0				2.0	所定選修(Elective Courses)	
學術論文寫作與發表(Academic writing and integrity)/D0D000023	選(E)	1.0				1.0	所定選修(Elective Courses)	全英文課程(Full English)
合計 選修總學分(Elective subtotal)		19.0	5.0	8.0	2.0	4.0		

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