中國醫藥大學 醫學院生醫科技產業博士學位學程 必修 畢業學分認定表 112 學年度入學適用

China Medical University The Ph.D. Program of Biotechnology and Biomedical Industry Requirement for Ph.D. Program (Applicable for 2023-2024 Enrollees)

第1頁/共2頁

科目名稱	修別	學分	碩 1 st y		博 2 nd y		博 3 rd y		博 4 th y		博 5 th y	四 year	6 th y	year	7 ^h y	/ear	課程分類	備註
イT 日 わ 相 Course Title	Type	子分 Credits	上 1	下 2	上 1	下 2	上 1	下 2	 Category	Remarks								
分子醫學(Molecular medicine)	必(R)	4.0	4.0														院定必 修(College Required Courses)	全英授課(Full English Course)
專題討論(一)(Seminar(I))	必(R)	1.0	1.0														所定必 修(Required Courses)	全英授課(Full English Course)
健康產業與行銷管理(Marketing management in health industry)	必(R)	2.0		2.0													所定必 修(Required Courses)	
專題討論(二)(Seminar(II))	必(R)	1.0		1.0													所定必 修(Required Courses)	全英授課(Full English Course)
專題討論(三)(Seminar(III))	必(R)	1.0			1.0												所定必 修(Required Courses)	全英授課(Full English Course)
專題討論(四)(Seminar(IV))	必(R)	1.0				1.0											所定必 修(Required Courses)	全英授課(Full English Course)
博士論文(Ph. D. Thesis)	必(R)	12.0				12.0											所定必 修(Required Courses)	
企業實習(一)(Internship(I))	必(R)	1.0					1.0										所定必 修(Required Courses)	
企業實習(二)(Internship(II))	必(R)	1.0						1.0									所定必 修(Required Courses)	
企業實習(三)(Internship(III))	必(R)	1.0							1.0								所定必 修(Required Courses)	
企業實習(四)(Internship(VI))	必(R)	1.0								1.0							所定必 修(Required Courses)	
合計 必修總學分(Requirement subtotal)		26.0	5.0	3.0	1.0	13.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0		

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。中

生醫科技產業博士學位學程注意事項

一、教育目標:

- 1. 培育具備生醫科技產業應用與法規以及行銷管理之專業人才。
- 2. 發展轉譯研究與產業實踐整合之生醫科技。
- 3. 增進臺灣生醫產業的國際視野及競爭力。
- 二、112學年度入學新生實施,最低畢業學分為48學分:中
- 1. 逕博前碩班學分最多認列10學分。
- 2. 必修學分: 30學分(包含校級必修「現代生物醫學講座」4學分、院級必修「分子醫學」4學分、學程規定課程必修共2學分、專題討論4學分、博士論文(專案報告)12學分和企業實習4學分)。
- 3. 選修學分:8學分(本博士學程選修課程至少6學分)。其他博士班課程可認列為選修學分。中

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 The Ph.D. Program of Biotechnology and Biomedical Industry

- 1. Educational goals:
- (1) Cultivate professionals with the application and regulations of the biomedical industry, and marketing management.
- (2) Develop biomedical technology that integrates translational research and industrial practice.
- (3) Promote the biomedical industry with international vision and competitiveness.
- 2. For students enrolled in 2023: The minimum number of credits required for graduation is 48.
- (1) 30 required credits: Lecture on Modern Biomedicine (School-level required course, 4 credits), Molecular medicine (College-level required course, 4 credits), Program required courses (2 credits), Seminar (4 credits), Ph.D. Thesis (12 credits), Internship (4 credits).
- (2) 8 elective credits (at least 6 credits must be taken from courses offered by The Ph.D. Program for biotechnology and biomedical Industry). Credits taken from another Ph.D. program can be considered as elective credits.

中國醫藥大學 醫學院生醫科技產業博士學位學程 選修 畢業學分認定表 112 學年度入學適用

China Medical University The Ph.D. Program of Biotechnology and Biomedical Industry Elective for Ph.D. Program (Applicable for 2023-2024 Enrollees)

第2頁/共2頁

			一年級 1 st year		二年級 2 nd year					
科目名稱 Course Title		學分 Credits	上 1	下 2	上 1	下 2	課程分類 Category	備註 Remarks		
分子癌症生物學(Molecular cancer biology)	選(E)	2.0	2.0				所定選修(Elective Courses)	全英授課(Full English Course)		
生醫產業專題討論(Dission in biomedical industry)	選(E)	2.0	2.0				所定選修(Elective Courses)			
企業見習(Enterprises practicum)	選(E)	1.0	1.0				所定選修(Elective Courses)			
科技管理(Technology management)	選(E)	3.0	3.0				所定選修(Elective Courses)	全英授課(Full English Course)		
專利法(Patent law)	選(E)	2.0	2.0				所定選修(Elective Courses)			
臨床與基礎醫學整合課程(Integrated course in clinical & basic medicine)	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)	選(E)	2.0	2.0				所定選修(Elective Courses)			
R語言數據分析(Data Analysis with R Programming)	選(E)	2.0		2.0			所定選修(Elective Courses)			
法規及臨床試驗(Regulation and clinical trials)	選(E)	2.0		2.0			所定選修(Elective Courses)			
專利授權與佈局(Patent strategy & licensing)	選(E)	2.0		2.0			所定選修(Elective Courses)			
智慧財產權與生醫產業(Intellectual property rights & biomedical industries)	選(E)	2.0		2.0			所定選修(Elective Courses)			
新藥開發流程(New Drug Development Flow)	選(E)	1.0		1.0			所定選修(Elective Courses)			
臨床試驗(Clinical trials)	選(E)	2.0		2.0			所定選修(Elective Courses)			
醫療器材管理與法規(Management & regulation of medical devices)	選(E)	2.0		2.0			所定選修(Elective Courses)			
大數據分析基本結構與原理(Basic structure & principle of big data analysis)	選(E)	2.0			2.0		所定選修(Elective Courses)			
合計 選修總學分(Elective subtotal)		29.0	14.0	13.0	2.0					

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