醫學院老化醫學博士學位學程 必修 畢業學分認定表 113 學年度入學適用 中國醫藥大學

China Medical University Ph.D. Program for Aging Requirement for Ph.D. Program (Applicable for 2024-2025 Enrollees)

第1頁/共1頁								列印日期(Date): 114年4月16日
科目名稱/課號	修別	學分	一年級 I st year		二年級 2 nd year		課程分類	備註
Course Title/Course ID	Туре	Credits	上 1	下 2	上 1	下 2	Category	Remarks
分子醫學(Molecular medicine)/BAD000013	必(R)	4.0	4.0				院定必修(College Required Courses)	院級必修,英文授課(College Required Courses-Full English Course)
老化之生理病理學(Pathophysiology of aging)/48D000002	必(R)	1.0	1.0				所定必修(Required Courses)	英文授課(Full English Course)
博士論文(Ph.D. Dissertation)/48D000027	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)		17.0	5.0			12.0		

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。

老化醫學博士學位學程注意事項

- 一、教育目標:培育具國際觀及獨立思考能力的基礎老化醫學 科學家與臨床老化醫師科學家,並期望畢業生成為未來老化領 域的領導者。
- 二、113學年度入學新生實施,本學程修業2年至7年,最低畢 業學分至少為32學分,含必修9學分,必選之選修課程9學 分,選修2學分,博士論文學分12學分。其選修課程中之專題 討論、老化分子細胞生物學、研究方法與生物統計導論、論文 寫作與研究計劃撰寫為本所必須選修之課程,另其他可依學生 興趣及研究方向修習本所選修課程或他所之課程。
- 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。
- (3)「現代生物醫學講座」-博士班校級必修4學分。
- (4)「分子醫學」-碩博士班院級必修4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。(外籍生免修)
- 五、本學分表做為畢業學分認定之依據。畢業授予學位名稱為 理學博士。

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 Ph.D. Program for Aging

- 1. Educational goals: Cultivate aging medical scientists with international perspective and independent thinking capability, so that graduates can become future leaders in the field of aging.
- 2. The doctoral program is a two-to-seven-year course. Minimum credits required for graduation is 32, including 9 credits from required courses (including University-, College-, and Institute-level courses), 9 credits from compulsory elective courses, 2 credits from elective courses, and 12 credits of doctoral thesis research.

For the elective courses, Seminar I~IV, Molecular cell biology in aging, Introduction to biomedical methods and biostatistics, and Scientific writing are compulsory elective courses for the program. For the rest of the elective credits, students can take other courses according to their interest and research directions.

- 3. Besides taking the required courses, students shall complete the following courses as stipulated by the university:
- (1) Laboratory safety: School-level required course, 0 credits.
- (2) Research Ethics: School-level required course, 0 credits.
- (3) Lecture on Modern Biomedicine: School-level required course, 4 credits.
- (4) Molecular medicine: College-level required course, 4 credits.
- 4. Students must pass the English Proficiency Standard before graduation, according to the regulation of CMU Students' English Proficiency Assessment. (International students excluded)
- 5. This list is used as the recognition basis of courses and credits required for graduation.

單位主管簽章:

醫學院老化醫學博士學位學程 選修 畢業學分認定表 113 學年度入學適用 中國醫藥大學

China Medical University Ph.D. Program for Aging Elective for Ph.D. Program (Applicable for 2024-2025 Enrollees)

科目名稱/課號			一年級		二年級		課程分類	備註
	修別	學分	1 st year		2 nd year			
Course Title/Course ID	Туре	Credits	上 1	下 2	上 1	下 2	Category	Remarks
真實世界數據與臨床試驗之應用(The use of big ealthcare data to examine Real World Evidence nd clinical trials)/48D000037	選(E)	2.0	2.0				自由選修(Free Electives)	
P經科學(Neuroscience)/D4D000006	選(E)	2.0	2.0				自由選修(Free Electives)	英文授課(Full English Course)
題討論(Seminar)/BAD000015	選(E)	1.0	1.0				所定選修(Elective Courses)	本學程學生必選,英文授課(Full English Compulsory Elective Course)
t化分子細胞生物學(Molecular cell biology in ging)/48D000029	選(E)	2.0		2.0			所定選修(Elective Courses)	本學程學生必選,英文授課(Full English Compulsory Elective Course)
さ化生物學與長壽基因(Biology of aging & ongevity genes)/48D000040	選(E)	1.0		1.0			自由選修(Free Electives)	
そ化與長壽(Ageing & longevity)/48D000038	選(E)	2.0		2.0			自由選修(Free Electives)	
を化轉譯醫學研究(Translational research on ging)/48D000030	選(E)	2.0		2.0			自由選修(Free Electives)	
开究方法與生物統計導論(Introduction to iomedical methods and iostatistics)/48D000011	選(E)	2.0		2.0			所定選修(Elective Courses)	本學程學生必選,英文授課(Full English Compulsory Elective Course)
中經遺傳疾病與訊息路徑(Neurogenetic diseases & signal transduction)/48D000039	選(E)	2.0		2.0			自由選修(Free Electives)	英文授課(Full English Course)
厚題討論(Seminar)∕BAD000016	選(E)	1.0		1.0			所定選修(Elective Courses)	本學程學生必選,英文授課(Full English Compulsory Elective Course)
全細胞於老化疾病上的應用(The application of tem cells for aging-associated isease)/48D000028	選(E)	2.0		2.0			自由選修(Free Electives)	
生物醫學工程特論(Special topics on biomedical ngineering)/48D000022	選(E)	2.0			2.0		自由選修(Free Electives)	
と化流行病學(Epidemiology of aging)/48D000025	選(E)	2.0			2.0		自由選修(Free Electives)	
老化奥癌症生物學(Aging and cancer iology)/48D000015	選(E)	2.0			2.0		自由選修(Free Electives)	
ト ト ト ト ト ト ト ト ト ト ト ト ト ト ト ト ト ト ト	選(E)	2.0			2.0		自由選修(Free Electives)	
开究設計與計畫(Study design & roposal)/48D000036	選(E)	2.0			2.0		自由選修(Free Electives)	
專題討論(Seminar)∕BAD000017	選(E)	1.0			1.0		所定選修(Elective Courses)	本學程學生必選,英文授課(Full English Compulsory Elective Course)
忍知神經科學(Cognitive meuroscience)/D4D000007	選(E)	3.0			3.0		自由選修(Free Electives)	英文授課(Full English Course)
侖文寫作與研究計劃撰寫(Scientific riting)∕GCD000017	選(E)	1.0			1.0		所定選修(Elective Courses)	本學程學生必選,英文授課(Full English Compulsory Elective Course)
さ化奥心血管疾病(Aging and cardiovascular iseases)/48D000020	選(E)	2.0				2.0	自由選修(Free Electives)	
そ化與免疫學(Aging and immunology)/48D000018	選(E)	2.0				2.0	自由選修(Free Electives)	
七化與幹細胞(Aging and stem cell iology)/48D000016	選(E)	2.0				2.0	自由選修(Free Electives)	
さ化奥營養代謝(Aging and nutritional iochemistry)/48D000014	選(E)	2.0				2.0	自由選修(Free Electives)	
學題討論(Seminar)/BAD00018	選(E)	1.0				1.0	所定選修(Elective Courses)	本學程學生必選,英文授課(Full English Compulsory Elective Course)

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。

Note of CMU

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- (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.

中國醫藥大學 醫學院老化醫學博士學位學程 選修 畢業學分認定表 113 學年度入學適用

China Medical University Ph.D. Program for Aging Elective for Ph.D. Program (Applicable for 2024-2025 Enrollees)

老化醫學博士學位學程注意事項

- 一、教育目標:培育具國際觀及獨立思考能力的基礎老化醫學 科學家與臨床老化醫師科學家,並期望畢業生成為未來老化領 域的領導者。
- 二、113學年度入學新生實施,本學程修業2年至7年,最低畢業學分至少為32學分,含必修9學分,必選之選修課程9學分,選修2學分,博士論文學分12學分。其選修課程中之專題討論、老化分子細胞生物學、研究方法與生物統計導論、論文寫作與研究計劃撰寫為本所必須選修之課程,另其他可依學生興趣及研究方向修習本所選修課程或他所之課程。
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- (2)「研究倫理」-碩博士班校級必修0學分。
- (3)「現代生物醫學講座」-博士班校級必修4學分。
- (4)「分子醫學」-碩博士班院級必修4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。(外籍生免修)
- 五、本學分表做為畢業學分認定之依據。畢業授予學位名稱為 理學博士。

Note of Ph.D. Program for Aging

- 1.Educational goals: Cultivate aging medical scientists with international perspective and independent thinking capability, so that graduates can become future leaders in the field of aging.
- 2. The doctoral program is a two-to-seven-year course. Minimum credits required for graduation is 32, including 9 credits from required courses (including University-, College-, and Institute-level courses), 9 credits from compulsory elective courses, 2 credits from elective courses, and 12 credits of doctoral thesis research.

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單位主管簽章: