China Medical University Master Program in Graduate Institute of Biomedical Sciences Requirement for Master Program (Applicable for 2025-2026 Enrollees)

第1頁/共1頁									列目	P日期(Date):114年4月15日
科目名稱/課號 Course Title/Course ID	修別 Type	學分 Credits	l	F級 hman 下 2	二年 Sopho		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
分子醫學(Molecular medicine)/BAD000013	必(R)	4. 0	4.0				>		院定必修(College Required Courses)	院級必修,全英文授 課(College Required Full English Course)
專題討論(一)(Seminar (I))/M9M000027	必(R)	1.0	1.0						所定必修(Required Courses)	全英文授課(Full English Course)
專題討論(二)(Seminar (II))/M9M000028	必(R)	1.0		1.0					所定必修(Required Courses)	全英文授課(Full English Course)
碩士論文(M.S. Thesis)/M9M000066	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)	12.0	5.0	1.0		6.0				

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
- (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。

生物醫學研究所碩士班注意事項

- 1、教育目標:(1)強化學生生物醫學與生物資訊專業知 識。(2)培養學生獨立思考、具有發覺及解決問題能力。(3)培 育具有國際觀之人才。
- 2、114學年度入學新生實施,本所修業1年至4年。
- 3、本所學位規定應修學分,至少應修30學分(含碩士論文6學 分)始得畢業。必修6學分{含院級必修4學分}、論文6學 分、選修18學分{需有9學分為本所認定表上之學分(含學生所 選組別之選修課程)}
- 4、新生須於一年級第二學期開學前繳交選定教學分組申請 書,並經指導教授與所長同意始確立組別。於期限內繳交者得 於碩士學位考前申請換組乙次;逾期繳交者不得申請換組。 5、各組修課規定:除應修習必修學分外,各組學生需從該組 選修課程中,至少擇一門課修習(如該課程有分上、下學 期,則皆需修畢,始可認列),加上其他選修課程後,始可畢 業。
- 6、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)「分子醫學」-碩博士班院級必修4學分
- 7、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)

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 Master Program in Graduate Institute of Biomedical Sciences

- 1. Educational goals: (1) To strengthen students' professional knowledge of biomedicine and bioinformatics. (2) Cultivate students' ability to think independently, discover and solve problems. (3) Cultivate talents with global perspective.
- 2. For students enrolled in 2025: The Master's program is a one-to-four-year course.
- 3. Minimum credits required for graduation is 30 credits, including 6 credits from required courses (must include 4 credits from College required courses), 18 credits from elective courses (must 9 credits of GIBS listed courses which include from student selected group) and 6 credits of Master's thesis research.
- 4. Students need to submit Curriculum Group application before the start of 2nd semester of the 1st academic year. Students submit on time are allowed to apply for Curriculum Group change once before applying for thesis defense for M.S. degree. Those fail to submit application on time are not allowed to change Curriculum Group. If a student applies for change of Curriculum Group, he/she needs to get the consent signature of the adviser and the head of the department/institute.
- 5. Student should pass at least 1 elective course of the selected Curriculum Group. If the course has more than one lectures offered in different semester, students should pass all the lectures.
- 6. 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) Molecular medicine: College-level required course, 4 credits.
- 7. Students must pass the English Proficiency Standard before graduation, according to the regulation of CMU Students' English Proficiency Assessment.(Foreign students excluded)

China Medical University Master Program in Graduate Institute of Biomedical Sciences Elective for Master Program (Applicable for 2025-2026 Enrollees)

科目名稱/課號	修別	學分		年級 hman	二子 Sonh	手級 omore	可供博士班下修	可供學士班上修	課程分類	備註
村日名神/ 詠覧 Course Title/Course ID	1分列 Type	字分 Credits	上	下	Sopho 上	下	(請打勾) Available for Ph.D.	(請打勾) Available for	 Category	預 註 Remarks
NA修飾特論(一)(Special topics on RNA odifications(I))/MOM000030	選(E)	1.0	1.0	2	1	2	Program (check)	Undergraduate (check)	所定選修(腫瘤醫學 組)(GIBS	全英文授課(Full English Course)
									courses(tumor medicine group))	
語言資料分析(一)(Data analysis with R rogramming (I))/M9M000184	選(E)	2. 0	2.0						所定選修(腫瘤醫學 組)(GIBS courses(tumor	
乀類分子遺傳學(Human Molecular enetics)∕M9M000186	選(E)	2. 0	2.0						medicine group)) 所定選修(臨床醫學 組)(GIBS course (clinical medicine group))	
、鼠胚胎發育解剖學(Anatomy & embryology of the ouse)/M9M000003	選(E)	2. 0	2.0						所定選修(神經科學 組)(GIBS courses(neuroscienc e group))	
P草藥與免疫學特論(Special topics on erb∕phytocompounds & immunology)∕M9M000004	選(E)	2.0	2.0						所定選修(微生物暨免 疫學組)(GIBS course (microbiology and immunology group))	
分子細胞生物學(Molecular cell iology)∕M9M000006	選(E)	3. 0	3.0						所定選修(分子化學暨 細胞生物學組)(GIBS courses (Molecular and cellular biology group))	
分子藥理學特論(一)(Special topics on molecular harmacology (I))∕M9M000133	選(E)	1.0	1.0						所定選修(分子化學暨 細胞生物學組)(GIBS courses (Molecular and cellular biology group))	全英文授課(Full English Course)
上物力學傳遞路徑(Mechanotransduction of cells hrough cell-substrate nteractions)∕M9M000144	選(E)	2.0	2.0						所定選修(分子化學暨 細胞生物學組)(GIBS courses (Molecular and cellular biology group))	全英文授課(Full English Course)
生物技術研究法(Biomedical research echnique)/M9M000008	選(E)	2. 0	2.0						所定選修(分子化學暨 細胞生物學組)(GIBS courses (Molecular and cellular biology group))	
生物基礎統計(Biostatistics)/M9M000090	選(E)	2. 0	2.0						所定選修(臨床醫學 組)(GIBS course (clinical medicine group))	
自體免疫疾病研究特論(一)(Special topics on utoimmune diseases (I))/M9M000112	選(E)		1.0						所定選修(微生物暨免疫學組)(GIBS course (microbiology and immunology group))	全英文授課(Full English Course)
血栓與發炎研究新趨勢(New research trends in hrombosis & inflammation)/M9M000012	選(E)	·	2.0						所定選修(臨床醫學 組)(GIBS course (clinical medicine group))	
免疫學特論(一)(Special topics on immunology Ⅰ))/M9M000014	選(E)		2.0						所定選修(微生物暨免疫學組)(GIBS course (microbiology and immunology group))	
肝癌研究專題討論(一)(Seminars in liver cancer research (Ⅰ))/M9M000108	選(E)		2.0						所定選修(微生物暨免疫學組)(GIBS course (microbiology and immunology group))	
儿腺癌生物學和治療(一)(Breast cancer biology nd therapy (Ⅰ))∕M9M000155	選(E)		1.0						所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
乎吸道免疫學專題討論(一)(Seminar in espiratory immunology (I))/M9M000016	選(E)	·	1.0						所定選修(微生物暨免疫學組)(GIBS course (microbiology and immunology group))	全英文授課(Full English Course)
÷米生物科技與再生醫學特論(Special topics on anobiotechnology & regeneration edicine)∕M9M000020	選(E)		2.0						所定選修(分子化學暨 細胞生物學組)(GIBS courses (Molecular and cellular biology group))	
疫苗學特論(Special topics on accinology)∕M9M000022	選(E)	2. 0	2.0						所定選修(微生物暨免 疫學組)(GIBS course (microbiology and immunology group))	
斗學性文章賞析與撰寫(一)(Scientific paper riting (I))/M9M000064	選(E)	1.0	1.0						所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	

China Medical University Master Program in Graduate Institute of Biomedical Sciences Elective for Master Program (Applicable for 2025-2026 Enrollees)

第2頁/共8頁									列	印日期(Date): 114年4月15
科目名稱/課號	修別	學分		手級		年級	可供博士班下修	可供學士班上修	課程分類	備註
村日石柵/ 沫號 Course Title/Course ID	Type	子万 Credits	上 上	man 下	上	omore 下	(請打勾) Available for Ph.D.	(請打勾) Available for	森在分類 Category	預 ā土 Remarks
			1	2	1	2	Program (check)	Undergraduate (check)		
致癌基因特論(Special topics on Oncogene)/MQM000015	選(E)	2.0	2.0						所定選修(腫瘤醫學 組)(GIBS	全英文授課(Full English Course)
Oncogene// memodours									courses(tumor	Elig11Sii Course)
									medicine group))	
哺乳類胚與動物複製技術(Embryo & animal cloning	選(E)	2.0	2.0						所定選修(分子化學暨	全英文授課(Full
technology)/M9M000024									細胞生物學組)(GIBS courses (Molecular	English Course)
									and cellular	
The state of the s	畑(口)	0.0							biology group))	> +t > 16 mg/E 11
神經科學(Neuroscience)/M9M000104	選(E)	2.0	2.0						所定選修(神經科學 組)(GIBS	全英文授課(Full English Course)
									courses(neuroscienc	
	/昭 / 口)	9.0	• •						e group))	λ ++ \- 16 ×m / Γ 11
神經遺傳疾病特論(一)(Special Topics on Neurogenetic Diseases (I))/M9M000189	選(E)	2.0	2.0						所定選修(神經科學 組)(GIBS	全英文授課(Full English Course)
(-7,7,7,									courses(neuroscienc	
Note that the first to be a boundary to be a constant of the c	WP (T)	0.0							e group))	2 14 2 16 m (B 11
神經遺傳學與中樞創傷特論 (一)(Special Topics on Neurogenetics & CNS Injury (I))/M9M000187	選(E)	2.0	2.0						所定選修(神經科學 組)(GIBS	全英文授課(Full English Course)
on hear against rest at each imparty (1777) monotores									courses(neuroscienc	ingrion course,
	(57)								e group))	
脂質學之現代觀點(Current opinion in lipidology)/M9M000087	選(E)	2.0	2.0						所定選修(臨床醫學 組)(GIBS course	
Tipidology// m5m000001									(clinical medicine	
		2						-	group))	1
胰臟癌的新興免疫療法(Emerging Immunotherapies for Pancreatic Cancer)/M9M000195	選(E)	2.0	2.0						所定選修(臨床醫學 組)(GIBS course	全英文授課(Full English Course)
101 Tancicatic Cancer// mamouvia									(clinical medicine	Engrish Course)
									group))	
胰臟癌研究專題討論(一)(Special topics on pancreatic cancer research (I))/M9M000076	選(E)	1.0	1.0						所定選修(腫瘤醫學 組)(GIBS	
pancreatic cancer research (1))/ memodou/o									courses(tumor	
									medicine group))	
動物實驗與實驗技術(Animal experiment &	選(E)	2.0	2.0						所定選修(分子化學暨	全英文授課(Full
experimental technique)/M9M000083									細胞生物學組)(GIBS courses (Molecular	English Course)
									and cellular	
# 170 A6 A8 to 15 and do not 170 (The provided in 1 0	/昭 / 巨 /	2.0	2.0						biology group))	X ** == 10 AM (P 11
基因編輯之原理與應用(The principle & applications of genome editing)/M9M000143	選(E)	2.0	2.0						所定選修(分子化學暨 細胞生物學組)(GIBS	全英文授課(Full English Course)
									courses (Molecular	
									and cellular biology group))	
蛋白質治療特論(Special topics in protein	選(E)	2.0	2.0						所定選修(分子化學暨	全英文授課(Full
therapeutics)/M9M000175									細胞生物學組)(GIBS	English Course)
									courses (Molecular and cellular	
									biology group))	
蛋白質修飾與基因調控特論(Special topics on	選(E)	2.0	2.0						所定選修(分子化學暨	
protein modification & gene regulation)/M9M000032									細胞生物學組)(GIBS courses (Molecular	
									and cellular	
水方补加利恩市 55之4人)(С	選(E)	1.0	1.0						biology group))	入 せ 1公2甲(P11
發育神經科學專題討論(一)(Seminar in developmental neuroscience(I))/M9M000033	迭(L)	1.0	1.0						所定選修(神經科學 組)(GIBS	全英文授課(Full English Course)
									courses(neuroscienc	
於伽附社終正次注(Stam galla massage)	選(E)	2. 0	2.0					-	e group)) 新字環條(八子什與既	+
幹細胞技術研究法(Stem cells research technique)/M9M000037	进(比)	2.0	2.0						所定選修(分子化學暨 細胞生物學組)(GIBS	
									courses (Molecular	
									and cellular biology group))	
幹細胞技術專題討論(一)(Seminar in stem cell	選(E)	2. 0	2.0						所定選修(分子化學暨	1
technology (I))/M9M000038			5						細胞生物學組)(GIBS	
									courses (Molecular and cellular	
									biology group))	
微免新知與探索(Exploring new concepts in	選(E)	1.0	1.0						所定選修(微生物暨免	
microbiology & immunology)/M9M000097									疫學組)(GIBS course (microbiology and	
									immunology group))	
腫瘤標靶治療與抗藥性(一)(Tumor targeted	選(E)	2.0	2.0						所定選修(腫瘤醫學	全英文授課(Full
therapy & drug resistance (I))/M9M000041									組)(GIBS courses(tumor	English Course)
									medicine group))	
實驗動物學(Laboratory animals)/M9M000131	選(E)	2.0	2.0						所定選修(分子化學暨	
									細胞生物學組)(GIBS courses (Molecular	
									and cellular	
									biology group))	

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第3頁/共8頁

列印日期(Date): 114年4月15日 一年級 二年級 可供博士班下修 可供學士班上修 修別 學分 課程分類 備註 科目名稱/課號 (請打勾) (請打勾) 上 Course Title/Course ID Credits Remarks Туре Available for Ph.D. Available for Category Undergraduate (check) Program (check) 認知神經科學(Cognitive 選(E 3.0 3.0 所定選修(神經科學 neuroscience)/M9M000103 組)(GIBS courses(neuroscienc e group)) 線蟲模式生物及其應用(Caenorhabditis elegans in 選(E 所定選修(微生物暨免 2.0 2.0 biomedical research)/M9M000047 疫學組)(GIBS course (microbiology and immunology group)) 興奮性神經傳導與神經毒性(Excitatory 選(E 2.0 2.0 所定選修(神經科學 全英文授課(Full neurotransmission & neurotoxicity)/M9M000140 組)(GIBS English Course) courses(neuroscienc e group)) 癌症內分泌特論(一)(Special topics on 所定選修(腫瘤醫學 全英文授課(Full 選(E 1.0 1.0 oncoendocrinology (I))/M9M000048 組)(GIBS English Course) courses(tumor medicine group) 癌症分子影像(一)(Cancer molecular imaging 選(E 2.0 所定選修(腫瘤醫學 (I))/M9M000052 組)(GIBS courses(tumor medicine group)) 癌症生物技術(Biotechnology for cancer 所定選修(腫瘤醫學 選(E 1.0 1.0 暑期授課,全英文課 程(Summer Course, research)/M9M000054 細)(GIBS Full English courses(tumor medicine group) Course) 癌症生物標記特論(一)(Special Topics on Cancer 選(E 2.0 所定選修(微生物暨免 2.0 Biomarker (I))/M9M000193 疫學組)(GIBS course (microbiology and immunology group)) 癌症免疫治療特論(一)(Special topics on 選(E 2.0 2.0 所定選修(腫瘤醫學 全英文授課(Full immuno-oncology therapy (I))/M9M000177 細)(GIBS English Course) courses(tumor medicine group)) 癌症免疫學(Cancer immunology)/M9M000071 選(E 2.0 所定選修(腫瘤醫學 2.0 組)(GIBS courses(tumor medicine group)) 癌症表遺傳體學(一)(Cancer 選(E 1.0 所定選修(腫瘤醫學 全英文授課(Full 1.0 epigenomics(I))/M9M000151 細)(GIBS English Course) courses(tumor medicine group)) 癌症病毒學特論(一)(Special Topics on Cancer 選(E 2.0 所定選修(微生物暨免 2.0 Virology (I))/M9M000191 疫學組)(GIBS course (microbiology and immunology group)) 癌症能量代謝特論(一)(Special topics on cancer 選(E 2.0 所定選修(腫瘤醫學 全英文授課(Full 2.0 metabolism (I))/M9M000137 組)(GIBS English Course) courses(tumor medicine group)) 選(E 1.0 所定選修(微生物暨免 癌症微生物特論(一)(Special topics on cancer 1.0 microbiology(I))/M9M000168 疫學組)(GIBS course (microbiology and immunology group)) 所定選修(腫瘤醫學 癌症與發炎特論(一)(Special topics on cancer & 選(E 1.0 全英文授課(Full 1.0 inflammation (I))/M9M000059 組)(GIBS English Course) courses(tumor medicine group)) 癌症轉移與幹細胞特論 (一)(Special topics on 全英文授課(Full 選(E 2.0 2.0 所定選修(腫瘤醫學 cancer metastasis and stem cells 細)(GIBS English Course) (I))/M9M000182 courses(tumor medicine group)) 臨床認知與神經科學特論(Special topic on 2.0 所定選修(神經科學 2.0 clinical cognitive & neural 組)(GIBS sciences)/M9M000088 courses(neuroscienc e group)) 臨床癌症與轉譯醫學(Clinical oncology & 選(E 2.0 2.0 所定選修(腫瘤醫學 translation medicine)/BAD000014 組)(GIBS courses(tumor medicine group)) 轉譯醫學之理論與實務(一)(Theory & practice of 選(E 1.0 所定選修(臨床醫學 全英文授課(Full 1.0 translation medicine (I))/M9M000110 組)(GIBS course English Course) (clinical medicine group)) 轉譯醫學實驗方法之理論與實作入門(一)(Concepts 選(E 2.0 所定選修(臨床醫學 2.0 & practice in translational experimental 組)(GIBS course methodology (I))/M9M000145 (clinical medicine group)) 醫療3D列印原理(3D printing in medical 選(E 2.0 所定選修(臨床醫學 2.0 application introduction)/M9M000100 組)(GIBS course (clinical medicine group))

China Medical University Master Program in Graduate Institute of Biomedical Sciences Elective for Master Program (Applicable for 2025-2026 Enrollees)

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科目名稱/課號	修別	學分		手級 nman	二年	手級 omore	可供博士班下修	可供學士班上修	課程分類	備註
Course Title/Course ID	Type	Credits	上	下	上	下	(請打勾) Available for Ph.D.	(請打勾) Available for	では Category	Remarks
# U . th ## (B / D)	- MR (T)	2.0	1	2	1	2	Program (check)	Undergraduate (check)	and the control of	
藥物遺傳學(Pharmacogenetics)/49D000039	選(E)	2.0	2.0						所定選修(臨床醫學 組)(GIBS course	
									(clinical medicine	
DNI 4 JV 68 JEAN / C . 1 1 . DNI		0.0							group))	
RNA生物學特論(Special topics on RNA biology)/M9M000001	選(E)	2.0		2.0					所定選修(微生物暨免 疫學組)(GIBS course	
									(microbiology and	
	an (12)								immunology group))	
RNA修飾特論(二)(Special topics on RNA modifications (II))/M9M000160	選(E)	1.0		1.0					所定選修(腫瘤醫學 組)(GIBS	全英文授課(Full English Course)
modifications (11/)/ momovorou									courses(tumor	English course)
	.								medicine group))	
R語言資料分析(二)(Data analysis with R programming (II))/M9M000185	選(E)	2.0		2.0					所定選修(腫瘤醫學 組)(GIBS	
programming (11/)/ monocoros									courses(tumor	
	_								medicine group))	
人類注意力(Human attention)/M9M000002	選(E)	2.0		2.0					所定選修(神經科學 組)(GIBS	
									courses(neuroscienc	
									e group))	
人類腸道微生物於疾病之相關研究(Research about	選(E)	2.0		2.0					所定選修(微生物暨免	
human microbiota & disease)/M9M000139									疫學組)(GIBS course (microbiology and	
									immunology group))	
分子藥理學特論(二)(Special topics on molecular	選(E)	1.0		1.0					所定選修(分子化學暨	全英文授課(Full
pharmacology (II))/M9M000134									細胞生物學組)(GIBS courses (Molecular	English Course)
									and cellular	
									biology group))	
生物訊息傳遞特論(Special topics on signal transduction)/M9M000009	選(E)	2.0		2.0					所定選修(分子化學暨 細胞生物學組)(GIBS	
transdiction// mamoooooa									courses (Molecular	
									and cellular	
止止次如次则体(Disinformatio	選(E)	2. 0		2.0					biology group))	
生物資訊資料庫(Bioinformatic database)/M9M000154	迭(L)	2.0		2.0					所定選修(腫瘤醫學 組)(GIBS	
la tabase// mamoooto4									courses(tumor	
	ver (D)	1.0							medicine group))	> +h > 16 m / D 11
自體免疫疾病研究特論(二)(Special topics on autoimmune diseases (II))/M9M000113	選(E)	1.0		1.0					所定選修(微生物暨免 疫學組)(GIBS course	全英文授課(Full English Course)
									(microbiology and	
(h = h) 4h/T	ver (D)	0.0							immunology group))	
免疫代謝(Immune metabolism)/M9M000167	選(E)	2.0		2.0					所定選修(微生物暨免 疫學組)(GIBS course	
									(microbiology and	
	ver (D)	0.0							immunology group))	
免疫學生物技術特論(Special topics on biotechnology in immunology)/M9M000013	選(E)	2.0		2.0					所定選修(微生物暨免 疫學組)(GIBS course	
									(microbiology and	
M > (9.16.16 / 1.16 / 1.16 / 1.16 / 1.16 / 1.16 / 1.16 / 1.16 / 1.16 / 1.16 / 1.16 / 1.16 / 1.16 / 1.16 / 1.16	W. (D)	0.0							immunology group))	
免疫學特論(二)(Special topics on immunology (II))/M9M000015	選(E)	2. 0		2.0					所定選修(微生物暨免 疫學組)(GIBS course	
(,,,									(microbiology and	
BT 虚 4T 砂 車 BE 21 W / - 1/0	(肥 / 円)	0.0	\vdash						immunology group))	
肝癌研究專題討論(二)(Seminars in liver cancer research (II))/M9M000109	選(E)	2.0		2.0					所定選修(微生物暨免 疫學組)(GIBS course	
. ,,,									(microbiology and	
at net ce t J L 組 e v キ / - ン/D	(肥 / 円)	1.0							immunology group))	A ## 3- 16 am / D 1 *
乳腺癌生物學和治療(二)(Breast cancer biology and therapy (II))/M9M000156	選(E)	1.0		1.0					所定選修(腫瘤醫學 組)(GIBS	全英文授課(Full English Course)
									courses(tumor	
- 九四半月中間市Be-11 1 1 / − 1 / □ ・	(肥 / 円)	1.0							medicine group))	A ## 3- 16 am / D 1 *
呼吸道免疫學專題討論(二)(Seminar in respiratory immunology (II))/M9M000017	選(E)	1.0		1.0					所定選修(微生物暨免 疫學組)(GIBS course	全英文授課(Full English Course)
									(microbiology and	
h h) 55 11 bl a 14 bb a 2 0 /m	Van / 22.	0.0				_			immunology group))	
奈米生醫材料及轉譯科學(Translational biomaterials & nanomedicines)/M9M000171	選(E)	2.0		2.0					所定選修(微生物暨免 疫學組)(GIBS course	
									(microbiology and	
		2 -							immunology group))	
知覺發展特論(Special topics on perceptual development)/M9M000107	選(E)	2.0		2.0					所定選修(神經科學 組)(GIBS	全英文授課(Full English Course)
actorophicite// monovoroi									courses(neuroscienc	Engrion Course)
		_							e group))	
肥胖及糖尿病特論(Special topics on obesity & diabetes)/M9M000142	選(E)	2.0		2.0					所定選修(分子化學暨 細胞生物學組)(GIBS	全英文授課(Full English Course)
arabetes// montoutha									courses (Molecular	mgrish comsc)
									and cellular	
		<u> </u>	<u> </u>		<u> </u>			I	biology group))	<u> </u>

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科目名稱/課號	修別	學分	一年 Fresh		二年 Sopho	手級 omore	可供博士班下修 (請打勾)	可供學士班上修 (請打勾)	課程分類	備註
Course Title/Course ID	Туре	Credits	上 1	下 2	上 1	下 2	Available for Ph.D. Program (check)	Available for Undergraduate (check)	Category	Remarks
科學性文章賞析與撰寫(二)(Scientific paper riting (II))/M9M000065	選(E)	1.0		1.0		2	110glain (check)	Older graduate (eleck)	所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	
神經計算特論(Special Topics on Neurocomputing)/M9M000196	選(E)	2.0		2.0					所定選修(醫療資訊 組)(GIBS courses(biomedical informatics group))	
神經退化疾病與神經保護特論(Special topics on Neurodegenerative Disease and Neuroprotection)/M9M000153	選(E)	1.0		1.0					所定選修(神經科學 組)(GIBS courses(neuroscienc e group))	
神經遺傳疾病特論(二)(Special Topics on Neurogenetic Diseases (Ⅱ))/M9M000190	選(E)	2.0		2.0					所定選修(神經科學 組)(GIBS courses(neuroscienc e group))	全英文授課(Full English Course)
神經遺傳疾病與訊息路徑(Neurogenetic diseases & signal transduction)/M9M000170	選(E)	2.0		2.0					所定選修(神經科學 組)(GIBS courses(neuroscienc e group))	全英文授課(Full English Course)
神経遺傳學與中樞創傷特論 (二)(Special Topics on Neurogenetics & CNS Injury (II))/M9M000188	選(E)	2.0		2.0					所定選修(神經科學 組)(GIBS courses(neuroscienc e group))	全英文授課(Full English Course)
胰臟癌研究專題討論(二)(Special topics on pancreatic cancer research (II))/M9M000077	選(E)	1.0		1.0					所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	
記憶的生化機制(Biochemistry of nemory)/M9M000172	選(E)	2.0		2.0					所定選修(神經科學 組)(GIBS courses(neuroscienc e group))	
為慢病毒應用與實作(Application & practice of oseudotyped lentivirus)/M9M000068	選(E)	2.0		2.0					所定選修(微生物暨免 疫學組)(GIBS course (microbiology and immunology group))	
基因工程與生物技術特論(Special topics on gene engineering & biotechnology)/M9M000093	選(E)	2.0		2.0					所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	
基因損傷調控(Regulation of DNA damage response)/M9M000026	選(E)	2.0		2.0					所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
細胞生物學中的生物物理方法(Biophysical Methods in Cell Biology)/M9M000150	選(E)	2.0		2.0					所定選修(分子化學暨 細胞生物學組)(GIBS courses (Molecular and cellular biology group))	全英文授課
組織工程與生物醫學特論(Special topics on tissue engineering & biomedicine)/M9M000031	選(E)	2.0		2.0					所定選修(分子化學暨 細胞生物學組)(GIBS courses (Molecular and cellular biology group))	
發育神經科學專題討論(二)(Seminar in developmental neuroscience(II))/M9M000034	選(E)	1.0		1.0					所定選修(神經科學 組)(GIBS courses(neuroscienc e group))	全英文授課(Full English Course)
幹細胞技術専題討論(二)(Seminar in stem cell technology (II))/M9M000039	選(E)	2.0		2.0					所定選修(分子化學暨 細胞生物學組)(GIBS courses (Molecular and cellular biology group))	
腫瘤標靶治療與抗藥性(二)(Tumor targeted therapy & drug resistance (Ⅱ))/M9M000042	選(E)	2.0		2.0					所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
實驗動物醫學(Laboratory animal nedicine)/M9M000105	選(E)	2.0		2.0					所定選修(分子化學暨 細胞生物學組)(GIBS courses (Molecular and cellular biology group))	
認知科學論文寫作(Scientific writing in cognitive sciences)/M9M000116	選(E)	2.0		2.0					所定選修(神經科學 組)(GIBS courses(neuroscienc e group))	全英文授課(Full English Course)
興奮性毒性期刊討論(Excitotoxicity journal Club)/M9M000141	選(E)	1.0		1.0					所定選修(神經科學 組)(GIBS courses(neuroscienc e group))	全英文授課(Full English Course)

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科目名稱/課號	修別	學分	Fres	年級 hman	Soph	年級 omore	可供博士班下修 (請打勾)	可供學士班上修 (請打勾)	課程分類	備註
Course Title/Course ID	Туре	Credits	上	下 2	上 1	下 2	Available for Ph.D. Program (check)	Available for Undergraduate (check)	Category	Remarks
遺傳流行病學(Genetic epidemiology)/M9M000096	選(E)	2.0	1	2.0	1	2	Program (check)	Undergraduate (check)	所定選修(臨床醫學 組)(GIBS course (clinical medicine	
癌症內分泌特論(二)(Special topics on oncoendocrinology (II))/M9M000049	選(E)	1.0		1.0					group)) 所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
癌症分子影像(二)(Cancer molecular imaging (II))/M9M000053	選(E)	2.0		2.0					所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	
癌症生物標記特論(二)(Special Topics on Cancer Biomarker(II))/M9M000194	選(E)	2.0		2.0					所定選修(微生物暨免 疫學組)(GIBS course (microbiology and immunology group))	
癌症生物學(Cancer biology)/M9M000055	選(E)	2.0		2.0					所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
癌症免疫治療特論(二)(Special topics on immuno-oncology therapy (II))/M9M000178	選(E)	2.0		2.0					所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
癌症表遺傳體學(二)(Cancer epigenomics(II))/M9M000152	選(E)	1.0		1.0					所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
癌症病毒學特論(二)(Special Topics on Cancer Virology(II))/M9M000192	選(E)	2.0		2.0					所定選修(微生物暨免 疫學組)(GIBS course (microbiology and immunology group))	
癌症能量代謝特論(二)(Special topics on cancer metabolism (II))/M9M000138	選(E)	2.0		2.0					所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
癌症微生物特論(二)(Special topics on cancer microbiology(II))/M9M000169	選(E)	1.0		1.0					所定選修(微生物暨免 疫學組)(GIBS course (microbiology and immunology group))	
癌症與發炎特論(二)(Special topics on cancer & inflammation (II))/M9M000060	選(E)	1.0		1.0					所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
癌症標靶治療特論(Special topics on cancer target therapy)/M9M000180	選(E)	2.0		2.0					所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
癌症轉移與幹細胞特論 (二)(Special topics on cancer metastasis and stem cells (II))/M9M000183	選(E)	2.0		2.0					所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
轉譯基因體醫學特論(Translational genomic)/M9M000061	選(E)	2.0		2.0					所定選修(臨床醫學 組)(GIBS course (clinical medicine group))	
轉譯醫學之理論與實務(二)(Theory & practice of translation medicine (II))/M9M000111	選(E)	1.0		1.0					所定選修(臨床醫學 組)(GIBS course (clinical medicine group))	全英文授課(Full English Course)
轉譯醫學實驗方法之理論與實作入門(二)(Concepts & practice in translational experimental methodology (II))/M9M000146	選(E)	2.0		2.0					所定選修(臨床醫學 組)(GIBS course (clinical medicine group))	
醫學遺傳學(Medical genetics)/M9M000148	選(E)	2.0		2.0					所定選修(臨床醫學 組)(GIBS course (clinical medicine group))	
醫療3D列印(3D printing in medical application)/M9M000101	選(E)	2.0		2.0					所定選修(臨床醫學 組)(GIBS course (clinical medicine group))	
RNA修飾特論(三)(Special topics on RNA modifications (III))/M9M000161	選(E)	1.0			1.0				所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
分子藥理學特論(三)(Special topics on molecular pharmacology (III))/M9M000135	選(E)	1.0			1.0				所定選修(分子化學暨 細胞生物學組)(GIBS courses (Molecular and cellular biology group))	全英文授課(English Course)

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科目名稱/課號	修別	學分	Fresh	F級 man	二年 Sopho		可供博士班下修 (詩灯紅)	可供學士班上修 (詩红红)	課程分類	備註
村日右柵/ 赤號 Course Title/Course ID	Type	子分 Credits	上 上	下	上	下	(請打勾) Available for Ph.D.	(請打勾) Available for	計れ程 万 突見 Category	作 主 Remarks
自體免疫疾病研究特論(三)(Special topics on utoimmune diseases (III))/M9M000114	選(E)	1. 0	1	2	1.0	2	Program (check)	Undergraduate (check)	所定選修(微生物暨免疫學組)(GIBS course	全英文授課(Full English Course)
儿腺癌生物學和治療(三)(Breast cancer biology	選(E)	1. 0			1.0				(microbiology and immunology group)) 所定選修(腫瘤醫學	全英文授課(Full
nd therapy (III))/M9M000157									組)(GIBS courses(tumor medicine group))	English Course)
チ吸道免疫學專題討論(三)(Seminar in espiratory immunology (III))/M9M000018	選(E)	1.0			1.0				所定選修(微生物暨免 疫學組)(GIBS course (microbiology and immunology group))	全英文授課(Full English Course)
表験癌研究専題討論(三)(Special topics on ancreatic cancer research (III))/M9M000078	選(E)	1.0			1.0				所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	
專題討論(三)(Seminar (III))∕M9M000029	選(E)	1.0			1.0				所定選修(不分組) (Department course)	全英文授課,碩二尚 未畢業學生須選 修(Full English Compulsory Electiv Course for second grade students)
忍知神經科學病例研究(Patient-based approaches o cognitive neuroscience)/M9M000046	選(E)	2. 0			2.0				所定選修(神經科學 組)(GIBS courses(neuroscienc e group))	
癌症內分泌特論(三)(Special topics on ncoendocrinology (III))∕M9M000050	選(E)	1.0			1.0				所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
NA修飾特論(四)(Special topics on RNA odifications (IV))/M9M000162	選(E)	1.0				1.0			所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
分子藥理學特論(四)(Special topics on molecular sharmacology (IV))/M9M000136	選(E)	1.0				1.0			所定選修(分子化學暨 細胞生物學組)(GIBS courses (Molecular and cellular biology group))	全英文授課(Full English Course)
自體免疫疾病研究特論(四)(Special topics on autoimmune diseases (IV))/M9M000115	選(E)	1.0				1.0			所定選修(微生物暨免 疫學組)(GIBS course (microbiology and immunology group))	全英文授課(Full English Course)
乳腺癌生物學和治療(四)(Breast cancer biology and therapy (IV))/M9M000158	選(E)	1.0				1.0			所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
乎吸道免疫學專題討論(四)(Seminar in respiratory immunology (IV))/M9M000019	選(E)	1.0				1.0			所定選修(微生物暨免 疫學組)(GIBS course (microbiology and immunology group))	全英文授課(Full English Course)
指質豎代謝體之於精準醫學(Lipidomics & netabolomics in precision medicine)∕M9M000147	選(E)	2. 0				2.0			所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	
表職癌研究專題討論(四)(Special topics on wancreatic cancer research (IV))/M9M000079	選(E)	1.0				1.0			所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	
助物行為實驗設計(Design for animal behavior xperiment)∕M9M000084	選(E)	2. 0				2.0			所定選修(分子化學暨 細胞生物學組)(GIBS courses (Molecular and cellular biology group))	全英文授課(Full English Course)
專題討論(四)(Seminar (IV))/M9M000030	選(E)	1.0				1.0			所定選修(不分組) (Department course)	全英文授課,碩二尚 未畢業學生須選 修(Full English Compulsory Electiv Course for second grade students)
癌症內分泌特論(四)(Special topics on oncoendocrinology (IV))/M9M000051	選(E)	1.0				1.0			所定選修(腫瘤醫學 組)(GIBS courses(tumor medicine group))	全英文授課(Full English Course)
	al)	220.0		95.0						

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。

Note of CMU

University requirement for graduation.

(1)Students must take and pass the courses: Research Ethics(0 credit) and Laboratory Safety (0 credit).

China Medical University Master Program in Graduate Institute of Biomedical Sciences Elective for Master Program (Applicable for 2025-2026 Enrollees)

- (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。

生物醫學研究所碩士班注意事項

- 1、教育目標:(1)強化學生生物醫學與生物資訊專業知識。(2)培養學生獨立思考、具有發覺及解決問題能力。(3)培育具有國際觀之人才。
- 2、114學年度入學新生實施,本所修業1年至4年。
- 3、本所學位規定應修學分,至少應修30學分(含碩士論文6學分)始得畢業。必修6學分{含院級必修4學分}、論文6學分、選修18學分{需有9學分為本所認定表上之學分(含學生所選組別之選修課程)}
- 4、新生須於一年級第二學期開學前繳交選定教學分組申請書,並經指導教授與所長同意始確立組別。於期限內繳交者得於碩士學位考前申請換組乙次;逾期繳交者不得申請換組。 5、各組修課規定:除應修習必修學分外,各組學生需從該組選修課程中,至少擇一門課修習(如該課程有分上、下學期,則皆需修畢,始可認列),加上其他選修課程後,始可畢業。
- 6、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)「分子醫學」-碩博士班院級必修4學分
- 7、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)

(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 Master Program in Graduate Institute of Biomedical Sciences

- 1. Educational goals: (1) To strengthen students' professional knowledge of biomedicine and bioinformatics. (2) Cultivate students' ability to think independently, discover and solve problems. (3) Cultivate talents with global perspective.
- 2. For students enrolled in 2025: The Master's program is a one-to-four-year course.
- 3. Minimum credits required for graduation is 30 credits, including 6 credits from required courses (must include 4 credits from College required courses), 18 credits from elective courses (must 9 credits of GIBS listed courses which include from student selected group) and 6 credits of Master's thesis research.
- 4. Students need to submit Curriculum Group application before the start of 2nd semester of the 1st academic year. Students submit on time are allowed to apply for Curriculum Group change once before applying for thesis defense for M.S. degree. Those fail to submit application on time are not allowed to change Curriculum Group. If a student applies for change of Curriculum Group, he/she needs to get the consent signature of the adviser and the head of the department/institute.
- 5. Student should pass at least 1 elective course of the selected Curriculum Group. If the course has more than one lectures offered in different semester, students should pass all the lectures.
- 6. 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) Molecular medicine: College-level required course, 4 credits.
- 7. Students must pass the English Proficiency Standard before graduation, according to the regulation of CMU Students' English Proficiency Assessment.(Foreign students excluded)

單位主管簽章: