

醫學檢驗生物技術學碩士班【必修】畢業學分表-109 學年度入學適用
Department of Medical Laboratory Science and Biotechnology
Required Courses for 2020 Admitted Master's Students

科目名稱 Subject	授課教師 Instructor	學分 Credit	一年級 First Year		二年級 Second Year	
			上學期 Sem1	下學期 Sem2	上學期 Sem1	下學期 Sem2
專題討論(一) Seminar(I)	莊淨媛 姜中人	1	1			
分子醫學 Molecular medicine (本課程開在生物醫學研究所博 士班 1 年級) 課號:D4D000136 (This course is on Ph.D. Program in Graduate Institute of Biomedical Sciences / 1) Course Code- D4D000136	學院必修 課程 College Required Courses	4	4			
分子細胞生物學 Molecular and cellular biology	鄭如茜等	2	2			
醫學檢驗生物技術學特論 Special topics on medical technology and biotechnology	林振文等	3		3		
專題討論(二) Seminar(II)	黃蕙君 鄭如茜	1		1		
專題討論(三) Seminar(III) (Full English courses)	林振文 林孟亮	1			1	
碩士論文 M. S. Thesis	各指導教授	6				6
合計總學分 Total Credits		18	7	4	1	6

醫學檢驗生物技術學碩士班【選修】畢業學分表-109 學年度入學適用
Department of Medical Laboratory Science and Biotechnology
Elective Courses for 2020 Admitted Master's Students

科目名稱 Subject	學分 Credit	一年級 First Year		二年級 Second Year	
		上學期 Sem1	下學期 Sem2	上學期 Sem1	下學期 Sem2
腫瘤分子診斷 Molecular diagnosis of cancer	2	2			
分子免疫學 Molecular immunology	2	2			
儀器分析特論 Special topics on instrument analysis	2	2			
醫用病毒學研究方法 Research methods in medical virology	2	2			
生物醫學研究的設計與方法(一) Methods in biomedical research(I)	2	2			
分子細菌學技術 Technology in Molecular Bacteriology	2	2			
人工生殖技術學 Assisted reproduction technology	1	1			
酵素反應機轉 Enzyme mechanism	2	2			
細菌基因學 Bacterial genetics	2	2			
臨床實驗室管理與行銷(Clinical laboratory management certification and health services marketing)	2		2		
生物醫學研究的設計與方法(二) Methods in biomedical research(II)	2		2		
細胞激素特論 Special topics on the cytokine network	2		2		
生物資料庫 Bioinformatic database	1		1		
基因體與蛋白質體學 Genomics and Proteomics	2		2		

科目名稱 Subject	學分 Credit	一年級 First Year		二年級 Second Year	
		上學期 Sem1	下學期 Sem2	上學期 Sem1	下學期 Sem2
		腫瘤生物學 Tumor biology	2		2
精準醫療之訊息傳導特論 Special Topics from Signal Transduction to Precision Medicine	2		2		
分子病毒學特論 Special topics on Advanced topics in molecular virology	2		2		
臨床應用免疫學 Clinical application of immunology	2		2		
細胞凋亡及流式細胞分析技術 cell apoptosis and flow cytometry assays	2		2		
細菌抗藥性特論 Special topics on antibiotic resistance in bacteria	2		2		
原核生物基因之表現與調控 Gene expression and regulation in prokaryote	2		2		
病毒致病機轉特論 Special topics on Mechanisms of viral pathogenicity	1			1	
奈米生物科技 Nanobiotechnology	2			2	
合計學分 Total credits : 43	43	17	23	3	0

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。

研究倫理:學生透過網路教學平台,每項課程閱讀時間須大於20分鐘,並通過線上測驗達及格標準。

(二)英文能力:

須達到「中國醫藥大學學生英文能力鑑定實施辦法」規定之校外英文檢測鑑定標準或完成校內規定之配套措施。

(二)教學助理訓練:

碩士生須完成至少1學期、博士生須完成至少2學期之教學助理訓練。惟具全職工作或已具教學經驗者,得提出相關證明至研究生事務處辦理抵免;經審核通過者,予以免修。前款所稱「全職工作」係以投保薪資計算,「教學經驗」泛指曾擔任教職、教學助理、課輔老師或學伴...等,具相關證明者。

二、系級畢業規定:

(一)109學年度入學新生實施,最低畢業學分為31學分,含必修12學分,選修13學分(需有6學分為本所教師所開之學分)及碩士論文學分6學分。

(二)需有論文發表,如下列條件之一:

- 1.參加國內或國外研討會議發表口頭報告論文1篇(需為第一作者)。
- 2.參加國內或國外研討會議張貼論文壁報1篇(需為第一作者)。
- 3.發表國內或國外期刊論文1篇。

三、本學分表做為畢業學分認定之。

Annotation from school

- 1.Students need to take the courses: Laboratory safety(0) and Research ethics(0)
- 2.Students need to pass English ability examination before graduating.
- 3.Teaching Assistant Training: Master students must complete at least 1 semester of teaching assistant training.(Exemption for foreign students.)
4. This creditable will be considered as the confirmation for the credits of graduation.

Annotation from Department of Medical Technology

- 1.Applicable to the students enrolled in 2020 academic year.
- 2.Students must complete a minimum of 31 credits for graduation, including 18 required credits and a minimum of 13 elective credits.
- 3.Among 13 elective credits, graduate students must take a minimum of 6 credit courses offered by the department.
- 4.A paper needs to be published in one of the following ways of the following:
 - (1) To attend a domestic or foreign conference and publish an oral report paper as the first author.
 - (2) To participate in a domestic or foreign conference and present a poster paper as the first author.
 - (3) Publish a paper in a domestic or foreign journal.
5. Completion of school-level graduation requirements.

四、研究生學位考試申請:<https://gsa.cmu.edu.tw/?q=zh-hant/node/12>
Thesis Defense Oral Examination: <https://gsa.cmu.edu.tw/?q=en/node/42>