微生物及免疫學研究所博士班

似生物及光发字研九川 (P) 工班 113 學年度		
最低修業年限	二年	
應修學分數		
	至少應修畢 18 學分,其中包含本所訂定之必修科目	
	逕修讀博士學位研究生至少應修畢 30 學分	
應修(應選)課		
程及符合畢業資		
格之修課相關規		
定	①下列 a、b、c、d 必修課程四選二: a.高等微生物及免疫學通論-免疫學(2 學分)或免疫學(全英語)(2 學分)(中、英文版二擇	
	d.同手版生物及免疫字通酬-免疫字(2 字分)以免疫字(主央品)(2 字分)(+ 、兴义版一择 一)	
	b.高等微生物及免疫學通論-病毒學(2 學分)或病毒學(全英語)(2 學分)(中、英文版二擇	
	c.高等微生物及免疫學通論-細菌學(2 學分)或細菌學(全英語)(2 學分)(中、英文版二擇 一)	
	, 註:上述的中、英文版請擇一選修,若中、英二版都選修,其中一門不能計入畢業學	
	分內。	
	d.基因體科學(2 學分)	
	②下列課程三選一:	
	現代生物學研究方法(2 學分)、進階生化及分子生物學(3 學分)、進階細胞生物學(3 學	
	分) ③學術研究倫理(0 學分)	
	必選課程:	
	①博一生必選「生命科學院-生物醫學講座」(1 學分),至少兩學期。	
	②每學期需選修「微生物及免疫學專題討論」(2學分),直至博三結束。	
	③自博一下學期起,每學年需選修「微生物及免疫學研究」。但當學年若舉行博士學位	
	候選人資格考核,則可免修「微生物及免疫學研究」(2學分)。	
	图修畢及格必修課程後,需修兩學期之「微生物及免疫學實驗教學(一)」(1學分)	
	及「微生物及免疫學實驗教學(二)」(1學分)。	
	⑤博四、博五生可自由選擇於四年級或五年級舉行公開的全英語進度報告,並於舉行的學期選修「微生物及免疫學研究」(二學分)。	
	的字别送》 似王初及无奴子则元」(一字为)。	
	在職生組	
	必修課程:	
	①下列 a、b、c 必修課程三選一:	
	a.高等微生物及免疫學通論-免疫學(2 學分)或免疫學(全英語)(2 學分)(中、英文版二擇 一)	
	b.高等微生物及免疫學通論-病毒學(2 學分)或病毒學(全英語)(2 學分)(中、英文版二擇	
	c.高等微生物及免疫學通論-細菌學(2學分)或細菌學(全英語)(2學分)(中、英文版二擇	
	一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一一	
	註:上述的中、英文版請擇一選修,若中、英二版都選修,其中一門不能計入畢業學	

②學術研究倫理(0學分)

必選課程:

分內。

- ①每學期需選修「微生物及免疫學專題討論」(2學分),直至博三結束。
- ②自博二起,每學年需選修「微生物及免疫學研究」。但當學年若舉行博士學位

候選人資格考核,則可免修「微生物及免疫學研究」(2學分)。

③畢業前需舉行公開演講,並於舉行的學期選修「微生物及免疫學研究」(二學學分)。

選修課程:

經指導教授認可之3學分(含)以上之課程 (不包括「微生物及免疫學專題討論」、「微生物及免疫學研究」)。

外籍生

必修課程

- ①下列 a、b、c 必修課程三選二:
- a.免疫學(全英語)(2學分)
- b.病毒學(全英語)(2 學分)
- c.細菌學(全英語)(2學分)
- ②下列課程二選一

生醫科學實驗技術(英文版)(2學分)、分子細胞生物概論(英文版)(2學分)、

③學術研究倫理,0學分

必選課程

- ①每學期需選修「微生物及免疫學專題討論」(2學分),直至博三結束。
- ②自博一下學期起,每學年需選修「微生物及免疫學研究」。但當學年若舉行博士學位候選人資格考核,則可免修「微生物及免疫學研究」(2學分)。
- ③修畢及格必修課程後,需修兩學期之「微生物及免疫學教學(全英語)(A)」(1學分)及「微生物及免疫學教學(全英語)(B)」(1學分)。
- ④博四、博五生可自由選擇於四年級或五年級舉行公開的全英語進度報告,並於舉行的學期選修「微生物及免疫學研究」(二學分)。
- ⑤必選「生命科學院-生物醫學講座」(1學分),至少兩學期。

Institute of Microbiology & Immunology Ph. D. Program Academic Year 113

Mini. Term of Study	Two years
Minimum Credits	To obtain the degree, students must complete at least eighteen credits, including all required courses.
Minimum Credits for Direct-Entrance Ph.D.	For master students who directly advance to the Ph.D. program, at least thirty credits must be completed.
Curriculum and Regulations	Native students Required courses: ② Among the following courses: a, b, c and d, please choose two courses. a. "Immunology" (2 credits), or "Immunology (in English)" (2 credits), choose one. b. "Virology" (2 credits) or "Bacteriology (in English)" (2 credits), choose one. c. "Bacteriology" (2 credits) or "Bacteriology (in English)" (2 credits), choose one. Note: Among the above courses: a, b, and c, please choose between Chinese class or English class; if choosing both Chinese and English classes, the credit of one class cannot be added in the total required credits for graduation. d. "Genomic Science" (2 credits) ②One of the following courses: c. "Research Methods for Modern Microbiology & Immunology" (2 credits). f. "Advanced Biochemistry and Molecular Biology" (3 credits), g. "Advanced Cell Biology" (3 credits). %f. "g. Institute of Genomic Sciences opened ③"Research ethics" course (0 credit) Required elective courses: ②1st year Ph.D. students must choose "School of Life Sciences - Biomedical Lecture" (1 credit), at least in 2 semesters. ②Students must enroll in the elective course "Microbiology and Immunology Seminar" (2 credits) for 6 semesters. ③Upon commitment to thesis advisor, starting from the second semester of the first year, in every academic year, Ph.D. students must enroll in the course "Microbiology and Immunology Research Progress Report" (2 credits) every first semester of the academic year. However, a waiver of the regulation for the whole academic year is granted to Ph.D. students who have scheduled a Ph.D. candidacy examination in that year. ④ After completing the required compulsory course, students must enroll in the course "Microbiology and Immunology Laboratory Teaching Training (1)" (1 credits) and "Microbiology and Immunology Laboratory Teaching Training (2)" (1 credits) two semesters (2 credits). ③ 4th year or 5th year Ph.D. students may choose whether they want to have opening full English review on their fourth year or the fifth year, and they also need to choose "Microbiology an

English class; if choosing both Chinese and English classes, the credit of one class cannot be added in the total required credits for graduation.

②"Research ethics" course (0 credit)

Required elective courses:

- © Students must enroll in the elective course "Microbiology and Immunology Seminar" (2 credits) for 6 semesters.
- ② Upon commitment to thesis advisor, starting from the thied semester of the second year, in every academic year, Ph.D. students must enroll in the course "Microbiology and Immunology Research Progress Report" (2 credits) every first semester of the academic year. However, a waiver of the regulation for the whole academic year is granted to Ph.D. students who have scheduled a Ph.D. candidacy examination in that year.
- ③ Public lectures are required before graduation, and "Microbiology and Immunology Research Progress Report" (two credits) is required during the semester.

Elective courses:

Courses approved by the instructor are required at least 3 credits (or more) (excluding "Microbiology and Immunology Seminar" · "Microbiology and Immunology Research Progress Report")

International students

Required courses:

- ①Among the following courses: a, b, c, please choose two courses.
 - a. "Immunology (in English)" (2 credits),
 - b. "Virology (in English)" (2 credits),
 - c. "Bacteriology (in English)" (2 credits)
- ② One of the following courses:
 - e. "Experimental techniques for biomedical science" (2 credits)
 - f. "Molecular Cell Biology" (2 credits)
- 3"Research ethics" course (0 credit)

Required elective courses:

- ①Students must enroll in the elective course "Microbiology and Immunology Seminar" (2 credits) for 6 semesters.
- ② Upon commitment to thesis advisor, starting from the second semester of the first year, in every academic year, Ph.D. students must enroll in the course "Microbiology and Immunology Research Progress Report" (2 credits) every first semester of the academic year. However, a waiver of the regulation for the whole academic year is granted to Ph.D. students who have scheduled a Ph.D. candidacy examination in that year.
- ③After completing the required compulsory course, students must enroll in the course "Microbiology and Immunology Lecture Teaching Training in English (A)"(1 credits) and "Microbiology and Immunology Lecture Teaching Training in English (B)"(1 credits) two semesters (2 credits).
- ©Ph.D. students must choose "School of Life Sciences Biomedical Lecture" (1 credit), at least in 2 semesters.