

## 系所課程地圖 Department Curriculum Map

系所概要 Department	
系所名稱 Department Name	微生物暨公共衛生學研究所 Graduate Institute of Microbiology and Public Health (GIMPH)
班別 Division	◎ 碩士班(微生物組與公共衛生組) Master (Microbiology and Public Health Division)

教育目標 Education Goals	編號 Number	項目內容 Content	
	A	培養獸醫微生物研究之相關人才，藉以提昇國內獸醫病原診斷技術與動物疾病防疫之水準，並加速生物技術研究成果之產業化。 To cultivate professionals in veterinary microbiology to improve the diagnostics as well as the control and prevention of animal infectious diseases and accelerate the commercialization of biotechnology research results.	
	B	培養獸醫公共衛生研究與行政之相關人才，藉以保障國人建康與食品衛生安全。 To foster professionals in the research and administration of veterinary public health to ensure national health and food safety.	
學生核心能力 Student Core Competencies	編號 Number	項目內容 Content	對應之教育目標編號 Corresponding Education Goal Number
	A	微生物學與公共衛生學之專業知識。 Professional knowledge in microbiology and public health.	AB
	B	微生物學、公共衛生學、生物化學與分子生物學之實驗操作技術。 The ability to conduct experiments in microbiology, public health, biochemistry, and molecular biology research.	AB
	C	中英文科技文獻之閱讀能力。 The ability to read research articles in both English and Chinese.	AB
	D	邏輯思考能力與終身學習之態度。 The ability for logical thinking and the attitude for lifelong learning.	AB

※附註：

- 各系所所屬之班別，含學士班、碩士班、博士班等，請分別填寫。1. Complete the map separately for each division, including Bachelor's, Master's, and Doctoral program.  
例如：資管學士班需填寫表二及表三；資管碩士班也須填寫表二及表三。For example, Forms 2 and 3 must be completed for Bachelor's program in Management Information Systems, and also for Master's program in for Bachelor's program in Management Information Systems.
- 教育目標及核心能力之代號皆以英文字母大寫為主。2. Codes for Education Goals and Core Competencies must be in uppercase English alphabet letters.
- 可依不同班（組）別填寫教育目標及核心能力。3. Education Goals and Core Competencies can be specific to the division in question.

單位主管簽章：  
Head of Planning Division

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## 課程規劃表 Curriculum Plan

◎規劃單位：微生物暨公共衛生學研究所 Graduate Institute of Microbiology and Public Health (GIMPH)

課程名稱 Course Title	規劃要點（附註） Plans (Notes)				對應核心能力編號 Corresponding Number of Education Goal	開課單位 Course Offering Unit	備註 Remarks
	1	2	3	4			
<b>院核心課程（若無免填） College Core Courses (not required if none)</b>							
（中文） （Eng）							
<b>必修課程 Required Courses</b>							
（中文）高等微生物學 （Eng）Advanced Microbiology	M	A	Y	6	A40 B15 C20 D25	微衛所 微生物組 GIMPH (Microbiology Division)	一全年 First grade
（中文）專題討論-微生物組(一) （Eng）Seminar in Veterinary Microbiology (I)	M	C	Y	2	A25 B25 C25 D25	微衛所 微生物組 GIMPH (Microbiology Division)	一全年 First grade
（中文）碩士論文 （Eng）Thesis	M	C	Y	6	A25 B25 C25 D25	微衛所 微生物組 GIMPH (Microbiology Division)	二全年 Second grade
（中文）專題討論-微生物組(二) （Eng）Seminar in Veterinary Microbiology (II)	M	C	Y	2	A25 B25 C25 D25	微衛所 微生物組 GIMPH (Microbiology Division)	二全年 Second grade
（中文）高等獸醫公共衛生學 （Eng）Advanced Veterinary Public Health	M	A	Y	4	A30 B20 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一全年 First grade
（中文）專題討論 -公共衛生組(一) （Eng）Seminar in Veterinary Public Health (I)	M	C	Y	2	A25 B25 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一全年 First grade

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	1	2	3	4			
(中文) 碩士論文 (Eng) Thesis	M	C	Y	6	A25 B25 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	二全年 Second grade
(中文) 專題討論 -公共衛生組(二) (Eng) Seminar in Veterinary Public Health (II)	M	C	Y	2	A25 B25 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	二全年 Second grade

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選修課程 Elective Courses								
（中文）獸醫微生物研究法(一) （Eng） Research Methods in Veterinary Microbiology (I)	M	B	Y	2	A30 B20 C20 D30		微衛所 微生物組 GIMPH (Microbiology Division)	一全年 First grade
（中文）高等臨床病毒學 （Eng） Advanced Clinical Virology	M	AB	S	2	A30 B30 C20 D20		微衛所 微生物組 GIMPH (Microbiology Division)	一上 Fall semester of first grade
（中文）細胞素學 （Eng） Cytokines	M	A	S	2	A20 B30 C25 D25		微衛所 微生物組 GIMPH (Microbiology Division)	一上 Fall semester of first grade
（中文）動物細胞培養及應用 （Eng） Animal Cell Culture and Its Application	M	AB	S	2	A30 B40 C20 D10		微衛所 微生物組 GIMPH (Microbiology Division)	一上 Fall semester of first grade
（中文）應用分子遺傳學 （Eng） Applied Molecular Genetics	M	A	S	2	A30 B30 C20 D20		微衛所 微生物組 GIMPH (Microbiology Division)	一上 Fall semester of first grade
（中文）進階疫苗技術 （Eng） Advanced Vaccine Technology	M	A	S	2	A25 B30 C15 D30		微衛所 微生物組 GIMPH (Microbiology Division)	一下 Spring semester of first grade
（中文）細胞免疫學 （Eng） Cellular Immunology	M	A	S	2	A20 B30 C15 D35		微衛所 微生物組 GIMPH (Microbiology Division)	一下 Spring semester of first grade

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(中文) 蛋白質結構與功能 (Eng) Protein Structure and Function	M	A	S	2	A30 B20 C15 D35	微衛所 微生物組 GIMPH (Microbiology Division)	一下 Spring semester of first grade
(中文) 生物醫學論文之英文寫作 (Eng) Writing Biomedical Research Papers in English	M	A	S	2	A20 B10 C40 D30	微衛所 微生物組 GIMPH(Microbiology Division)	一上 Fall semester of first grade
(中文) 高等分子生物學 (Eng) Advanced Molecular Biology	M	A	Y	4	A40 B15 C35 D10	微衛所 微生物組 GIMPH (Microbiology Division)	一全年 First grade
(中文) 單源抗體技術學特論 (Eng) Special Topics on Monoclonal Antibody Techniques	M	B	S	2	A20 B30 C20 D30	微衛所 微生物組 GIMPH (Microbiology Division)	二上 Fall semester of second grade
(中文) 獸醫微生物研究法(二) (Eng) Research methods in Veterinary Microbiology (II)	M	B	Y	2	A30 B20 C20 D30	微衛所 微生物組 GIMPH (Microbiology Division)	二全年 Second grade
(中文) 動物病毒學文獻探討(一) (Eng) Seminar in Animal Virology(I)	M	A	Y	2	A20 B30 C30 D20	獸醫所 Dept. of Veterinary Medicine	一全年 First grade
(中文) 水生動物病毒學文獻探討(一) (Eng) Seminar in Aquatic Animal Virology(I)	M	A	Y	2	A20 B30 C30 D20	獸醫所 Dept. of Veterinary Medicine	一全年 First grade
(中文) 高等醫學生物化學 (Eng) Advanced Medical Biochemistry	M	A	S	2	A30 B25 C25 D20	獸醫所 Dept. of Veterinary Medicine	一上 Fall semester of first grade

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(中文) 分子病毒學 (Eng) Molecular Virology	M	A	S	2	A30 B25 C25 D20	獸醫所 Dept. of Veterinary Medicine	一下 Spring semester of first grade
(中文) 分子免疫學 (Eng) Molecular Immunology	M	A	S	2	A25 B25 C25 D25	獸醫所 Dept. of Veterinary Medicine	一上 Fall semester of first grade
(中文) 單源抗體技術學 (Eng) Monoclonal Antibody Techniques	M	B	S	2	A30 B30 C15 D25	微衛所 GIMPH	一下 Spring semester of first grade
(中文) 家畜寄生蟲學特論 (Eng) Special Topics in Animal Parasitology	M	A	S	2	A25 B25 C30 D20	獸醫所 Dept. of Veterinary Medicine	一下 Spring semester of first grade
(中文) 水生動物病毒學文獻探討(二) (Eng) Seminar in Aquatic Animal Virology (II)	M	A	Y	2	A30 B20 C20 D30	獸醫所 Dept. of Veterinary Medicine	二全年 Second grade
(中文) 進階科學簡報 (Eng) Advanced Scientific Presentation	M	A	S	2	A10 B35 C25 D30	微衛所 微生物組 GIMPH (Microbiology Division)	一上 Fall semester of first grade
(中文) 進階文獻導讀 (Eng) Advanced Directed Reading	M	A	S	2	A10 B35 C20 D35	微衛所 微生物組 GIMPH (Microbiology Division)	一下 Spring semester of first grade
(中文) 專題研究(一) (Eng) Research in Veterinary Public Health (I)	M	C	Y	4	A30 B20 C25 D25	微衛所 公衛組 GIMPH (PublicHealth Division)	一全年 First grade

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(中文) 環境毒理學 (Eng) Environmental Toxicology	M	A	S	3	A20 B30 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一上 Fall semester of first grade
(中文) 流行病學資料分析 (Eng) Analysis of Epidemiologic Data	M	A	S	2	A20 B30 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一上(A 班) Fall semester of first grade (Class A)
(中文) 流行病學資料分析 (Eng) Analysis of Epidemiologic Data	M	A	S	2	A20 B30 C25 D25	微衛所 GIMPH	一上(B 班) 分 AB 兩班，B 班為英文授課。 Fall semester of first grade (Class B) * There are Class A and B. Class B is taught in English.
(中文) 實驗診斷技術 (Eng) Laboratory Diagnostic Technique	M	A	Y	4	A15 B35 C30 D20	微衛所 公衛組 GIMPH (Public Health Division)	一全年(A 班) First grade (Class A)
(中文) 實驗診斷技術 (Eng) Laboratory Diagnostic Technique	M	A	S	3	A40 B20 C20 D20	微衛所 GIMPH	一上(B 班) 分 AB 兩班，B 班為英文授課。 Fall semester of first grade (Class B) * There are Class A and B. Class B is taught in English.
(中文) 健康一體 (Eng) One Health	M	A	S	2	A30 B20 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一下 Spring semester of first grade

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(中文) 流行病學基本法則 (Eng) Principles of Epidemiology	M	A	S	2	A40 B10 C10 D40	微衛所 公衛組 GIMPH (Public Health Division)	一上 Fall semester of first grade
(中文) 畜產品衛生 (Eng) Meat Hygiene	M	A	S	3	A20 B30 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一下 Spring semester of first grade
(中文) 公共衛生行政 (Eng) Administration of Public Health	M	A	S	1	A30 B20 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一上 Fall semester of first grade
(中文) 人畜共通傳染病學 (Eng) Zoonoses	M	A	S	2	A30 B20 C30 D20	微衛所 公衛組 GIMPH (Public Health Division)	一下 Spring semester of first grade
(中文) 傳染病流行病學 (Eng) Infectious Disease Epidemiology	M	A	S	2	A30 B20 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一下(A班) Spring semester of first grade (Class A)
(中文) 傳染病流行病學 (Eng) Infectious Disease Epidemiology	M	A	S	2	A40 B20 C20 D20	微衛所 公衛組 GIMPH	一下(B班) 分 AB 兩班，B 班為英文授課。 Spring semester of first grade (Class B) * There are Class A and B. Class B is taught in English.
(中文) 應用流行病學 (Eng) Applied Epidemiology	M	A	S	2	A20 B30 C20 D30	微衛所 公衛組 GIMPH (Public Health Division)	一下(A班) Spring semester of first grade (Class A)

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	1	2	3	4			
(中文) 應用流行病學 (Eng) Applied Epidemiology	M	A	S	2	A20 B30 C20 D30	微衛所 GIMPH	一下(B班) 分 AB 兩班，B 班為英文授課。 Spring semester of first grade (Class B) * There are Class A and B. Class B is taught in English.
(中文) 血清流行病學研究法 (Eng) Analytical Methods in Sero-epidemiology	M	A	S	2	A25 B25 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一下 Spring semester of first grade
(中文) 醫用生物統計學 (Eng) Medical Biostatistics	M	A	S	2	A25 B25 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一上 Fall semester of first grade
(中文) 預防醫學 (Eng) Preventive Medicine	M	A	S	2	A30 B20 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一上 Fall semester of first grade
(中文) 人類和動物的新浮現感染症 (Eng) Emerging Infectious Diseases in Humans and Animals	M	A	S	2	A30 B20 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一上(A班) 遠距視訊課程。 Fall semester of first grade * Distance learning courses.
(中文) 人類和動物的新浮現感染症 (Eng) Emerging Infectious Diseases in Humans and Animals	M	A	S	2	A40 B20 C20 D20	微衛所 GIMPH	一上(B班) 分 AB 兩班，B 班為英文授課。 Fall semester of first grade * There are Class A and B. Class B is taught in English.

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單位主管簽章：  
Head of Planning Division

承辦人簽章：  
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## 課程規劃表 Curriculum Plan

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(中文) 高等醫用生物統計學 (Eng) Advanced Medical Biostatistics	M	A	S	2	A25 B25 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一下 Spring semester of first grade
(中文) 屠宰衛生實驗診斷學 (Eng) Diagnostic in Meat Hygiene	M	A	S	2	A20 B30 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	一下 Spring semester of first grade
(中文) 應用分子診斷技術學及實習 (Eng) The Principle and Practice of Molecular Diagnostic Techniques	M	AB	S	2	A20 B30 C30 D20	微衛所 公衛組 GIMPH (Public Health Division)	一上 正課一學分，實習一學分。 Fall semester of first grade * 1 credit for lecture and 1 credit for internship.
(中文) 獸醫藥理學特論 (Eng) Seminar in Veterinary Pharmacology	M	A	Y	4	A30 B20 C25 D25	獸醫所 Dept. of Veterinary Medicine	一全年 First grade
(中文) 實驗動物學特論 (Eng) Special Topics in Laboratory Animal Science	M	A	S	3	A20 B30 C25 D25	獸醫所 Dept. of Veterinary Medicine	一上 Fall semester of first grade
(中文) 肉品衛生特論 (Eng) Special Topics in Meat Hygiene	M	A	S	2	A30 B20 C25 D25	獸醫所 Dept. of Veterinary Medicine	一上 Fall semester of first grade
(中文) 醫學統計與試驗技術 (Eng) Medical Statistics and Experimental Design	M	AB	S	2	A20 B30 C25 D25	獸醫所 Dept. of Veterinary Medicine	一上 正課一學分，實習一學分。 Fall semester of first grade * 1 credit for lecture and 1

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							credit for internship.
(中文) 細菌分子致病機制學 (Eng) Molecular Mechanisms of Bacterial Pathogenesis	M	A	S	2	A30 B30 C20 D20	獸醫所 Dept. of Veterinary Medicine	一下 (先修獸醫微生物學) Spring semester of first grade *Prerequisites: Veterinary Microbiology
(中文) 比較醫學特論 (Eng) Special Topics on Comparative Medicine	M	A	S	2	A25 B20 C30 D25	獸醫所 Dept. of Veterinary Medicine	一下 Spring semester of first grade
(中文) 家禽病理學 (Eng) Avian Pathology	M	A	S	2	A30 B30 C10 D30	獸醫所 Dept. of Veterinary Medicine	一下 Spring semester of first grade
(中文) 高等微生物學 (Eng) Advanced Microbiology	M	A	Y	6	A40 B15 C20 D25	微衛所 微生物組 GIMPH (Microbiology Division)	一全年 First grade
(中文) WTO 專題(二) (Eng) WTO (II)	M	A	S	3	A30 B20 C25 D25	國政所 Graduate Institute of International Politics	一下 Spring semester of first grade
(中文) 專題研究(二) (Eng) Research in Veterinary Public Health (II)	M	C	Y	4	A20 B30 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	二全年 Second grade
(中文) 畜產公害防治 (Eng) Prevention of Animal Husbandry Pollution	M	A	S	2	A20 B30 C25 D25	微衛所 公衛組 GIMPH (Public Health Division)	二上 Fall semester of second grade

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(中文) 動物病毒學文獻探討(二) (Eng) Seminar in Animal Virology(II)	M	A	Y	2	A30 B20 C20 D30	獸醫所 Dept. of Veterinary Medicine	二全年 Second grade
(中文) 診斷病理學 (Eng) Diagnostic Pathology	M	A	Y	4	A30 B30 C20 D20	獸病所 Graduate Institute of Veterinary Pathobiology	一全年 First grade
(中文) 動物用藥特論 (Eng) Special Topics in Animal Pharmacology	M	A	Y	2	A25 B25 C25 D25	獸醫所 Dept. of Veterinary Medicine	二全年 Second grade
(中文) 公共衛生學研究法(一) (Eng) Research Methods in Public Health (I)	M	B	Y	2	A30 B20 C20 D30	微衛所 公衛組 GIMPH (Public Health Division)	一全年 First grade
(中文) 公共衛生學研究法(二) (Eng) Research Methods in Public Health (II)	M	B	Y	2	A30 B20 C20 D30	微衛所 公衛組 GIMPH (Public Health Division)	二全年 Second grade
(中文) 基礎微生物學 (Eng) Fundamental Microbiology	M	A	S	2	A40 B40 C10 D10	微衛所 GIMPH	一下 英文授課 Spring semester of first grade *In English

### 微生物暨公共衛生學研究所-公共衛生組-模組課程一覽表

#### Graduate Institute of Microbiology and Public Health- PublicHealth Division-Modular Course List

模組課程名稱 Modular Course：

上學期 Fall semester	下學期 Spring semester
流行病學基本法則（邱賢松）(2 學分) Principles of Epidemiology (Chiou, Hyan-Song) (2 credits)	血清流行病學研究法（邱賢松）(2 學分) Analytical Methods in Sero-epidemiology (Chiou, Hyan-Song)

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	(2 credits)
流行病學資料分析（張照勤）(2 學分) Analysis of Epidemiologic Data (Chang, Chao-Chin) (2 credits)	人畜共通傳染病學（張照勤）(2 學分) Zoonoses (Chang, Chao-Chin) (2 credits)
人類和動物的新浮現感染症(趙黛瑜)（2 學分） Emerging Infectious Diseases in Humans and Animals (Chao, Day-Yu) (2 credits)	傳染病流行病學（趙黛瑜）（2 學分） Infectious Disease Epidemiolog (Chao, Day-Yu) (2 credits)
公共衛生行政（陳德勛）(1 學分) Administration of Public Health (Chen, Ter-Hsin) (1 credits)	畜產品衛生（陳德勛）(3 學分) Meat Hygiene (Chen, Ter-Hsin) (3 credits)
實驗診斷技術（徐維莉，全學年）(4 學分) Laboratory Diagnostic Technique (Hsu, Wei-Li) (4 credits)	

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