

## Department Curriculum Map

Department	
Department Name	Graduate Institute of Microbiology and Public Health (GIMPH)
Division	◎ Ph. D. (Microbiology and Public Health Division)

Education Goals	Number	Content	
	A	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	To foster professionals in the research and administration of veterinary public health to ensure national health and food safety.	
	C	To cultivate educational staff and researchers with independent research and innovative R&D capabilities.	
Student Core Competencies	Number	Content	Corresponding Number of the Education Goal
	A	Professional knowledge in microbiology and public health.	ABC
	B	The ability to conduct experiments in microbiology, public health, biochemistry, and molecular biology research.	ABC
	C	The ability to read research articles in both English and Chinese.	ABC
	D	The ability to think logically and critically about experimental results.	ABC
	E	The ability for independent thinking, innovational R&D, and lifelong learning.	ABC

※Note :

1. Complete the map separately for each division, including Bachelor's, Master's, and Doctoral program. 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.
2. Codes for Education Goals and Core Competencies must be in uppercase English alphabet letters.
3. Education Goals and Core Competencies can be specific to the division in question.

Date:2024/8/20

Curriculum Plan

©Planning Unit: Graduate Institute of Microbiology and Public Health (GIMPH)

Course Title	Plans (Notes)				Corresponding Education Goal Number	Course Offering Unit	Remarks
	1	2	3	4			
College Core Courses (not required if none)							
Required Courses							
Seminar in Veterinary Microbiology (I)	D	C	Y	2	A20 B20 C20 D20 E20	GIMPH (Microbiology Division)	First grade
Seminar in Veterinary Microbiology (II)	D	C	Y	2	A20 B20 C20 D20 E20	GIMPH (Microbiology Division)	Second grade
Dissertation	D	C	Y	12	A20 B20 C20 D20 E20	GIMPH (Microbiology Division)	Second grade
Seminar in Veterinary Public Health (I)	D	C	Y	2	A20 B20 C20 D20 E20	GIMPH (Public Health Division)	First grade
Seminar in Veterinary Public Health (II)	D	C	Y	2	A20 B20 C20 D20 E20	GIMPH (Public Health Division)	Second grade
Dissertation	D	C	Y	12	A20 B20 C20 D20 E20	GIMPH (Public Health Division)	Second grade

※Note:  
Instructions for completing this form are provided below (please provide the correct English alphabet letters in fields 1 to 4)

- 1. U-Bachelor's program, M-Master's program, D-Doctoral program.
- 2. A-Lecture, B-Internship, C-Subjects with private guidance such as student presentations or invited speeches, topic discussions, topic research, etc.
- 3. S-Semester course, Y-Year-long course.
- 4. Total course (full-semester or full-year) credits (in Arabic numerals).

Date:2024/8/20

## Curriculum Plan

©Planning Unit: Graduate Institute of Microbiology and Public Health (GIMPH)

Course Title	Plans (Notes)				Corresponding Education Goal Number	Course Offering Unit	Remarks
	1	2	3	4			
Elective Courses							
Viral Pathogenesis	D	A	S	2	A25 B15 C20 D25 E15	GIMPH (Microbiology Division)	Spring semester of first grade
Review of Literature in Molecular Bacteriology (I)	D	A	Y	2	A20 B10 C30 D20 E20	GIMPH (Microbiology Division)	First grade
Review of Literature in Molecular Bacteriology (II)	D	A	Y	2	A20 B10 C30 D20 E20	GIMPH (Microbiology Division)	Second grade
Special Topics in Cellular Immunology	D	A	S	2	A15 B20 C25 D20 E20	GIMPH (Microbiology Division)	Fall semester of first grade
Seminar in Molecular Virology (I)	D	A	Y	2	A20 B25 C20 D20 E15	Dept. of Veterinary Medicine	First grade
Seminar in Molecular Virology (II)	D	A	Y	2	A20 B20 C25 D15 E20	Dept. of Veterinary Medicine	Second grade
Special Topics on Pathogenesis of Infectious Diseases	D	A	S	2	A25 B15 C30 D20 E10	GIMPH (Public Health Division)	Fall semester of first grade
Special Topics on Vector-borne Diseases	D	A	S	2	A20 B20 C20 D20 E20	GIMPH (Public Health Division)	Spring semester of first grade
Advanced Zoonoses	D	A	S	2	A30 B10 C20 D20 E20	GIMPH (Public Health Division)	Fall semester of first grade

※Note:

Instructions for completing this form are provided below (please provide the correct English alphabet letters in fields 1 to 4)

1. U-Bachelor's program, M-Master's program, D-Doctoral program.
2. A-Lecture, B-Internship, C-Subjects with private guidance such as student presentations or invited speeches, topic discussions, topic research, etc.
3. S-Semester course, Y-Year-long course.
4. Total course (full-semester or full-year) credits (in Arabic numerals).

Date:2024/8/20

Curriculum Plan

©Planning Unit: Graduate Institute of Microbiology and Public Health (GIMPH)

Course Title	Plans (Notes)				Corresponding Education Goal Number	Course Offering Unit	Remarks
	1	2	3	4			
Special Topics on Molecular Epidemiology	D	A	S	2	A25 B15 C20 D20 E20	GIMPH (Public Health Division)	Spring semester of first grade
Research in Veterinary Public Health (I)	D	C	Y	4	A15 B25 C20 D20 E20	GIMPH (Public Health Division)	First grade
Research in Veterinary Public Health (II)	D	C	Y	4	A15 B25 C20 D20 E20	GIMPH (Public Health Division)	Second grade
Academic writing skills in the biological sciences	D	A	S	2	A20 B20 C20 D20 E20	GIMPH (Microbiology Division)	Spring semester of first grade

The English version is provided for reference only.  
In case of any discrepancies between the English and Chinese versions, the Chinese version shall prevail.

※Note:  
Instructions for completing this form are provided below (please provide the correct English alphabet letters in fields 1 to 4)  
1. U-Bachelor's program, M-Master's program, D-Doctoral program.  
2. A-Lecture, B-Internship, C-Subjects with private guidance such as student presentations or invited speeches, topic discussions, topic research, etc.  
3. S-Semester course, Y-Year-long course.  
4. Total course (full-semester or full-year) credits (in Arabic numerals).

Date:2024/8/20