

表二-系所課程地圖

Table 2 - Department Curriculum Map

系所概要 Department	
系所名稱 Department Name	獸醫病理生物學研究所 Graduate Institute of Veterinary Pathobiology
班別 Division	碩士班 Master's Program

教育目標 Education Goals	
編號 Number	項目內容 Content
A	應用進階動物病理學與動物醫學的訓練，以培養高級病理學研究人才。 To apply advanced animal pathology and veterinary medicine training to cultivate advanced pathology research talents.
B	培養學生病理診斷、邏輯推理及溝通技巧能力。 Cultivate students' ability of pathological diagnosis, logical reasoning and communication skills.
C	加強進階致病機制研究及生物技術研發。 Strengthen advanced pathogenic mechanism research and biotechnology research and development.

※附註 Note：

- 1.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.
- 2.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.
- 3.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.

承辦人簽章 Signature of Processing Clerk:

規劃單位主管簽章 Head of Planning Unit:

114 年 3 月 4 日 Date:

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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	應用動物醫學、病理學及生物醫學專業知能。 Applied professional knowledge in animal medicine, veterinary pathology and biological medicine.	ABC
B	獸醫病理學、微生物學及生物醫學之實驗操作技術。 Experimental technique for veterinary pathology, microbiology and bio-medicine.	ABC
C	生物醫學訓練、致病機理研究及疫苗生技研發技術等關鍵能力的培養。 Training of biomedical pathology, pathogenesis research and biotechnology research and development of technology and other key capabilities.	ABC
D	研究方向的釐定、問題發想與分析、邏輯推理及溝通技巧的應用。 Logical thinking, analytical reasoning, questioning and application of communication skills.	ABC

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獸醫病理生物學研究所 Graduate Institute of Veterinary Pathobiology 碩士班 Master's Program

課程規劃表 Curriculum Plan

中文課程名稱 Course Title in Chinese	英文課程名稱 Course Title in English	規劃要點 (附註) Plans (Notes)				對應核心能力 編號 Corresponding Education Goal Number	建議 修課年級 Recommended Year of Study	開課 單位 Course Offering Unit	備註 Remarks
		1	2	3	4				
院核心課程(若無免填，請加註必修、選修) College Core Courses (not required if none, otherwise please indicate Required Courses and Elective Courses)									
必修課程 Required Courses									
診斷病理學	Diagnostic Pathology	M	AB	Y	4	A: 30 % B: 60 % C: % D: 10 % ABD	一全年 Full year of first-year	獸病所 Graduate Institute of Veterinary Pathobiology	甲組必修 乙組選修 Group A Required Courses Group B Elective Courses

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3:S-學期課、Y-學年課。3: S-Semester course, Y-Year-long course.

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		1	2	3	4				
組織病理學 (一)	Histopathology (I)	M	B	Y	2	A: 50 % B: 20 % C: % D: 30 % ABD	一全年 Full year of first-year	獸病所 Graduate Institute of Veterinary Pathobiology	*必修，可任擇選讀 *Required Electives
專題討論 (一)	Seminar in Veterinary Pathology (I)	M	C	Y	2	A: 30 % B: % C: % D: 70 % AD	一全年 Full year of first-year	獸病所 Graduate Institute of Veterinary Pathobiology	*必修 *Required Courses
獸醫病理學概論	General Veterinary Pathology	M	A	S	3	A: 80 % B: 10 % C: % D: 10 % ABD	一上 First grade, first semester	獸病所 Graduate Institute of Veterinary Pathobiology	*必修，可任擇選讀 *Required Electives

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		1	2	3	4				
神經病理學	Neuropathology	M	A	S	2	A: 60 % B: % C: % D: 40 % AD	一上 First grade, first semester	獸病所 Graduate Institute of Veterinary Pathobiology	先修"獸醫病理學" Prerequisites: Veterinary Pathology *必修，可任擇選讀 *Required Electives
病理生物技術	Pathobiotechnology	M	A	S	2	A: % B: 60 % C: 40 % D: % BC	一上 First grade, first semester	獸病所 Graduate Institute of Veterinary Pathobiology	*必修，可任擇選讀 *Required Electives
高等病理生物學	Advanced Pathobiology	M	A	S	2	A: 70 % B: % C: 30 % D: % AC	一上 First grade, first semester	獸病所 Graduate Institute of Veterinary Pathobiology	先修"獸醫病理學" Prerequisites: Veterinary Pathology *必修，可任擇選讀 *Required Electives

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		1	2	3	4				
分子病理學	Molecular Pathology	M	A	S	2	A: 40 % B: 10 % C: 50 % D: % ABC	一下 First grade, second semester	獸病所 Graduate Institute of Veterinary Pathobiology	*必修，可任擇選讀 *Required Electives
病毒病理學	Viral Pathology	M	A	S	2	A: 50 % B: % C: % D: 50 % AD	一下 First grade, second semester	獸病所 Graduate Institute of Veterinary Pathobiology	*必修，可任擇選讀 *Required Electives
比較病理學	Comparative Pathology	M	A	S	2	A: 70 % B: % C: % D: 30 % AD	二下 Second semester of second grade	獸病所 Graduate Institute of Veterinary Pathobiology	*必修，可任擇選讀 *Required Electives

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		1	2	3	4				
碩士論文	Thesis	M	C	Y	6	A: 10 % B: 10 % C: 10 % D: 70 % ABCD	二全年 Second grade full year	獸病所 Graduate Institute of Veterinary Pathobiology	*必修 *Required Courses
專題討論 (二)	Seminar in Veterinary Pathology (II)	M	C	Y	2	A: 30 % B: % C: % D: 70 % AD	二全年 Second grade full year	獸病所 Graduate Institute of Veterinary Pathobiology	*必修 *Required Courses

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<p>*114 學年度起本所研究生可依個人興趣及學術研究方向應於“診斷病理學”、“組織病理學(一)”、“獸醫病理學概論”、“神經病理學”、“病理生物技術”、“高等病理生物學”、“分子病理學”、“病毒病理學”、及“比較病理學”9科目必修課程共21學分中，任擇至少6學分修讀。</p> <p>“專題討論(一)”、“專題討論(二)”各2學分，共4學分及“碩士論文”6學分所訂必修課程則須全修。</p> <p>*From the 114th academic year Graduate students of the Institute can choose to take at least 6 credits from the 9 required courses (21 credits in total) including Diagnostic Pathology, Histopathology (I), General Veterinary Pathology, Neuropathology, Pathobiotechnology, Advanced Pathobiology, Molecular Pathology, Viral Pathology, and Comparative Pathology according to their personal interests and academic research directions.</p> <p>The required courses of "Seminar in Veterinary Pathology (I)" and "Seminar in Veterinary Pathology (II)" are 2 credits each, totaling 4 credits, and "Master's Thesis" is 6 credits. All required courses must be taken.</p>									

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選修課程 Elective Courses									
專題研究（一）	Independent Study in Veterinary Pathology（I）	M	C	Y	4	A: 25 % B: 25 % C: 25 % D: 25 % ABCD	一全年 Full year of first-year	獸病所 Graduate Institute of Veterinary Pathobiology	分 A~G 七組 台下指導 Divided into seven groups A~G Private guidance
小動物臨床病例病理討論（一）	Clinicopathologic Conference (CPC) of Small Animals (I)	M	B	Y	2	A: 20 % B: % C: % D: 80 % AD	一全年 Full year of first-year	獸病所 Graduate Institute of Veterinary Pathobiology	

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免疫毒理技術學(一)	Immunotoxicologic Technology (I)	M	A	Y	4	A: 10 % B: 10 % C: 40 % D: 40 % ABCD	一全年 Full year of first-year	獸病所 Graduate Institute of Veterinary Pathobiology	
動物疫苗學	Animal Vaccinology	M	A	Y	4	A: 30 % B: % C: 70 % D: % AC	一全年 Full year of first-year	獸病所 Graduate Institute of Veterinary Pathobiology	

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病毒基因體複製學	Viral Genome Replication	M	A	Y	4	A: 70 % B: % C: 30 % D: % AC	一全年 Full year of first-year	獸病所 Graduate Institute of Veterinary Pathobiology	
腫瘤診斷病理學	Tumor Diagnostic Pathology	M	A	S	2	A: 80 % B: % C: % D: 20 % AD	一上 First grade, first semester	獸病所 Graduate Institute of Veterinary Pathobiology	
動物毒物病理學(一)	Toxicologic Pathology in Animals (I)	M	A	S	2	A: 50 % B: 10 % C: 20 % D: 20 % ABCD	一上 First grade, first semester	獸病所 Graduate Institute of Veterinary Pathobiology	

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規劃單位主管簽章 Head of Planning Unit:

114 年 5 月 9 日 Date

獸醫病理生物學研究所 Graduate Institute of Veterinary Pathobiology 碩士班 Master's Program

課程規劃表 Curriculum Plan

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		1	2	3	4				
形態病理技術學 (一)	Morphological Pathotechnology(I)	M	B	S	1	A: 30 % B: 10 % C: % D: 60 % ABD	一上 First grade, first semester	獸病所 Graduate Institute of Veterinary Pathobiology	
獸醫外科病理學(一)	Veterinary Surgical Pathology(I)	M	A	S	2	A: 20 % B: 30 % C: 50 % D: % ABC	一上 First grade, first semester	獸病所 Graduate Institute of Veterinary Pathobiology	
專業科學簡報	Professional and effective scientific presentation	M	A	S	1	A: % B: % C: % D: 100 % D	一上 First grade, first semester	獸病所 Graduate Institute of Veterinary Pathobiology	全英文課程 Full English Course

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實驗室品質管理與認證標準	Laboratory quality management and international standard	M	A	S	2	A: 50 % B: 50 % C: % D: % AB	一上 First grade, first semester	獸病所 Graduate Institute of Veterinary Pathobiology	新增課程 New Courses
毒理及疾病實驗動物與替代模型	Alternative Toxicology and Disease Animal Models	M	A	S	2	A: 50 % B: % C: % D: 50 % AD	一 暑期 First-year summer	獸病所 Graduate Institute of Veterinary Pathobiology	
實驗動物科學之高階應用	Advanced Applications in Laboratory Animal Science	M	A	S	2	A: 15 % B: 50 % C: 35 % D: % ABC	一 暑期 First-year summer	獸病所 Graduate Institute of Veterinary Pathobiology	

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動物毒物病理學(二)	Toxicologic Pathology in Animals (II)	M	A	S	2	A: 50 % B: 10 % C: 20 % D: 20 % ABCD	一下 First grade, second semester	獸病所 Graduate Institute of Veterinary Pathobiology	
水生動物病理學	Pathology of Aquatic Animals	M	A	S	2	A: 80 % B: 20 % C: % D: % AB	一下 First grade, second semester	獸病所 Graduate Institute of Veterinary Pathobiology	
獸醫外科病理學(二)	Veterinary Surgical Pathology (II)	M	A	S	2	A: 50 % B: 30 % C: 20 % D: % ABC	一下 First grade, second semester	獸病所 Graduate Institute of Veterinary Pathobiology	

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		1	2	3	4				
重要豬病學特論	Special Topics on Swine Diseases	M	A	S	2	A: 40 % B: 10 % C: 50 % D: % ABC	一下 First grade, second semester	獸病所 Graduate Institute of Veterinary Pathobiology	
形態病理技術學 (二)	Morphological Pathotechnology (II)	M	B	S	1	A: 30 % B: 10 % C: % D: 60 % ABD	一下 First grade, second semester	獸病所 Graduate Institute of Veterinary Pathobiology	
細胞訊息傳導與調控	Cellular Signal Transduction and Regulation	M	A	S	2	A: % B: 40 % C: 60 % D: % BC	一下 First grade, second semester	獸病所 Graduate Institute of Veterinary Pathobiology	

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		1	2	3	4				
組織晶片於獸醫腫瘤學 應用	Tissue Microarray in Veterinary Oncology	M	A	S	2	A: 50 % B: % C: % D: 50 % AD	一下 First grade, second semester	獸病所 Graduate Institute of Veterinary Pathobiology	
專題研究 (二)	Independent Study in Veterinary Pathology (II)	M	C	Y	4	A: 25 % B: 25 % C: 25 % D: 25 % ABCD	一下 First grade, second semester	獸病所 Graduate Institute of Veterinary Pathobiology	分 A~G 七組 台下指導 Divided into seven groups A~G Private guidance
組織病理學 (二)	Histopathology (II)	M	B	Y	2	A: 80 % B: 20 % C: % D: % AB	二全年 Second grade full year	獸病所 Graduate Institute of Veterinary Pathobiology	

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		1	2	3	4				
診斷病理學(二)	Diagnostic Pathology (II)	M	B	Y	2	A: 60 % B: 40 % C: % D: % AB	二全年 Second grade full year	獸病所 Graduate Institute of Veterinary Pathobiology	
免疫毒理技術學(二)	Immunotoxicologic Technology (II)	M	A	Y	4	A: 20 % B: 10 % C: 30 % D: 40 % ABCD	二全年 Second grade full year	獸病所 Graduate Institute of Veterinary Pathobiology	
小動物臨床病例病理討論(二)	Clinicopathologic Conference (CPC) of Small Animals (II)	M	B	Y	2	A: 20 % B: % C: % D: 80 % AD	二全年 Second grade full year	獸病所 Graduate Institute of Veterinary Pathobiology	

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		1	2	3	4				
抗病毒藥物的理論與應用	Antiviral Drug: Theory and Application	M	A	Y	4	A: 70 % B: % C: 30 % D: % AC	二全年 Second grade full year	獸病所 Graduate Institute of Veterinary Pathobiology	
獸醫免疫病理學	Veterinary Immunopathology	M	A	S	2	A: 40 % B: 10 % C: 50 % D: % ABC	二上 Second grade first semester	獸病所 Graduate Institute of Veterinary Pathobiology	

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高等微生物學	Advanced Microbiology	M	A	Y	6	A: 60 % B: 10 % C: 20 % D: 10 % ABCD	一全年 Full year of first-year	微衛所 Graduate Institute of Microbiology and Public Health	
細胞素學	Cytokines	M	A	S	2	A: 60 % B: 10 % C: 20 % D: 10 % ABCD	一上 First grade, first semester	微衛所 Graduate Institute of Microbiology and Public Health	

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		1	2	3	4				
流行病學基本法則	Principles of Epidemiology	M	A	S	2	A: 25 % B: % C: 35 % D:40 % ACD	一上 First grade, first semester	微衛所 Graduate Institute of Microbiology and Public Health	
細胞免疫學	Cellular Immunology	M	A	S	2	A: % B: 50 % C: 50 % D: % BC	一下 First grade, second semester	微衛所 Graduate Institute of Microbiology and Public Health	

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		1	2	3	4				
進階疫苗技術	Advanced Vaccine Technology	M	A	S	2	A: % B: 30 % C: 70 % D: % BC	一下 First grade, second semester	微衛所 Graduate Institute of Microbiology and Public Health	
單源抗體技術學	Monoclonal Antibody Techniques	M	B	S	2	A: % B: 60 % C: 40 % D: % BC	一下 First grade, second semester	微衛所 Graduate Institute of Microbiology and Public Health	
獸醫電子顯微鏡診斷學 及實習	Diagnostic Electron Microscopy in Veterinary Medicine	M	AB	S	3	A: 50 % B: 50 % C: % D: % AB	一下 First grade, second semester	獸醫所 Department of Veterinary Medicine	

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動物病毒學文獻探討 (一)	Review of Literature in Animal Virology (I)	M	A	Y	2	A: % B: 50 % C: 50 % D: % BC	一全年 Full year of first-year	獸醫所 Department of Veterinary Medicine	
魚病學特論	Special Lectures on Aquatic Animal Diseases	M	A	S	2	A:70 % B: 10 % C: 10 % D: 10 % ABCD	一上 First grade, first semester	獸醫所 Department of Veterinary Medicine	
分子免疫學	Molecular Immunology	M	A	S	2	A: 25 % B: 50 % C: 20 % D: % ABC	一上 First grade, first semester	獸醫所 Department of Veterinary Medicine	

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3:S-學期課、Y-學年課。3: S-Semester course, Y-Year-long course.

4:科目(全期或全年)總學分數(請填阿拉伯數字)。4: Total course (full-semester or full-year) credits (in Arabic numerals).

承辦人簽章 Signature of Processing Clerk:

規劃單位主管簽章 Head of Planning Unit:

114 年 5 月 9 日 Date

獸醫病理生物學研究所 Graduate Institute of Veterinary Pathobiology 碩士班 Master's Program

課程規劃表 Curriculum Plan

中文課程名稱 Course Title in Chinese	英文課程名稱 Course Title in English	規劃要點 (附註) Plans (Notes)				對應核心能力 編號 Corresponding Education Goal Number	建議 修課年級 Recommended Year of Study	開課 單位 Course Offering Unit	備註 Remarks
		1	2	3	4				
基礎毒理學	Basic Toxicology	M	A	S	3	A: 20 % B: 20 % C: 30 % D: 30 % ABCD	一上 First grade, first semester	獸醫所 Department of Veterinary Medicine	
肉品衛生特論	Special Topics in Meat Hygiene	M	A	S	2	A: 30 % B: 60 % C: 10 % D: % ABC	一上 First grade, first semester	獸醫所 Department of Veterinary Medicine	
家畜血液學特論	Special Topics on Hematology of Domestic Animals	M	A	S	2	A: 60 % B: 40 % C: % D: % AB	一上 First grade, first semester	獸醫所 Department of Veterinary Medicine	

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家禽病理學	Avian Pathology	M	A	S	2	A: 50 % B: 20 % C: 30 % D: % ABC	一下 First grade, second semester	獸醫所 Department of Veterinary Medicine	
細菌分子致病機制學	Molecular Mechanisms of Bacterial Pathogenesis	M	A	S	2	A: 50 % B: 20 % C: 15 % D: 15 % ABCD	一下 First grade, second semester	獸醫所 Department of Veterinary Medicine	

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