

系所課程地圖 Department Curriculum Map

系所概要 Department	
系所名稱 Department Name	生命科學系 Department of Life Sciences
班別 Division	碩士班(甲組) Master's Program (Biodiversity Program)

教育目標 Education Goals	
編號 Number	項目內容 Content
A	培養全球環境變遷之生態保育尖兵 Cultivate elite experts in ecological conservation for global environmental change
B	探究生物的分佈和多樣性形成原因 Investigate the distribution of organisms and the causes of biodiversity formation
C	瞭解生物演化的機制 Understand the mechanisms of biological evolution
D	探討生態系統的運作 Explore the functioning of ecosystems

學生核心能力 Student Core Competencies		
編號 Number	項目內容 Content	對應教育目標編號 Corresponding Education Goal Number
A	分析生態系統 Analyzing the ecological system	ABD
B	認識生物多樣性 Understanding biodiversity and biological classification	ABC
C	瞭解演化及分類 Realizing evolution and related mechanisms of the	ACD
D	培養實驗分析寫作能力 Training the ability of experimental analysis and paper	ABCD

- ※附註 Note:
- 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.

承辦人簽章 Signature of Processing Clerk: _____ 規劃單位主管簽章 Head of Planning Unit: _____ 年 月 日 Date: _____

課程規畫表 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									
專題討論(一) a	Seminar (I) a	M	C	S	1	AC	1	生科系 Dept. of Life Sciences	
專題討論(一)b	Seminar (I) b	M	C	S	1	AC	1	生科系 Dept. of Life Sciences	
專題討論(一)c	Seminar (I) c	M	C	S	1	AC	1	生科系 Dept. of Life Sciences	
專題討論(二)a	Seminar (II) a	M	C	S	1	AC	1	生科系 Dept. of Life Sciences	
專題討論(二)b	Seminar (II) b	M	C	S	1	AC	1	生科系 Dept. of Life Sciences	
專題討論(二)c	Seminar (II) c	M	C	S	1	AC	1	生科系 Dept. of Life Sciences	
畢業論文	Master Thesis	M	C		6	AC	*	生科系 Dept. of Life Sciences	
實驗室安全衛生	Laboratory Safety and Health	M	A	S	1	A	1	生科系 Dept. of Life Sciences	

※附註：規劃要點填表說明：(1 到 4 各欄位請填正確代表字母)

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

- 1: U-學士課程、M-碩士課程、D-博士課程。1: U-Bachelor's program, M-Master's program, D-Doctoral program.
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- 2: A-Lecture, B-Internship, C-Subjects with private guidance such as student presentations or invited speeches, topic discussions, topic research, etc.
- 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:

年 月 日 Date:

課程規畫表 Curriculum Plan

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		1	2	3	4				
選修課程 Elective Courses									
科學論文寫作	Writing a Scientific Paper	M	A	S	2	D		生科系 Dept. of Life Sciences	
植物比較形態學	Plant Comparative Morphology	M	A	S	3	AB		生科系 Dept. of Life Sciences	
古生菌學	Archaea	M	A	S	3	BC		生科系 Dept. of Life Sciences	
微生物遺傳學	Microbial Genetics	M	A	S	3	C		生科系 Dept. of Life Sciences	
海洋生態學特論	Special Topics in Marine Biology	M	A	S	2	A		生科系 Dept. of Life Sciences	
生態模式學	Ecological Modeling	M	A	S	3	A		生科系	113-2刪除 Deleted in the 2nd semester of the 2024 academic year
水域生態學專題研究 (一)	Independent Study and Research: Aquatic Ecology (I)	M	C	S	2	A		生科系 Dept. of Life Sciences	
分子演化專題研究(一)	Independent Study and Research: Molecular Evolution (I)	M	C	S	2	C		生科系 Dept. of Life Sciences	
海洋生物學專題研究(一)	Independent Study and Research: Marine Biology (I)	M	C	S	2	B		生科系 Dept. of Life Sciences	
分子演化專題研究(二)	Independent Study and Research: Molecular Evolution (II)	M	C	S	2	C		生科系 Dept. of Life Sciences	
海洋生物學專題研究(二)	Independent Study and Research: Marine Biology (II)	M	C	S	2	B		生科系 Dept. of Life Sciences	
微生物遺傳學特論	Special Topics in Microbial Genetics	M	A	S	3	C		生科系 Dept. of Life Sciences	
水域生態學專題研究 (二)	Independent Study and Research: Aquatic Ecology (II)	M	C	S	2	A		生科系 Dept. of Life Sciences	
環境生理學專題討論	Special Topics in Environmental Physiology	M	C	S	2	B		生科系 Dept. of Life Sciences	
潮間帶生態學	Intertidal Ecology	M	A+	S	3	AB		生科系 Dept. of Life Sciences	
動物生態學特論	Special Topics in Animal Ecology	M	A	S	2	AB		生科系 Dept. of Life Sciences	
脊椎動物學特論	Special Topical in Vertebrate Biology	M	A	S	2	B		生科系 Dept. of Life Sciences	
功能及演化形態學	Functional and Evolutionary Morphology	M	A	S	2	C		生科系 Dept. of Life Sciences	
環境生理學	Environmental Physiology	M	A	S	3	B		生科系 Dept. of Life Sciences	
親緣地理學特論	Special Topics in Phylogeography	M	A	S	2	C		生科系 Dept. of Life Sciences	
生態復育工法	Ecological Restoration and Engineering	M	A	S	3	AB		生科系 Dept. of Life Sciences	
兩生類動物學	Biology of Amphibians	M	A	S	2	B		生科系 Dept. of Life Sciences	
爬蟲類動物學	Biology of Reptiles	M	A	S	2	B		生科系 Dept. of Life Sciences	
海岸系統生態學	Coastal Ecosystem	M	A	S	3	AB		生科系 Dept. of Life Sciences	
分子生態學特論	Advanced Topics in Molecular Ecology	M	A	S	2	AB		生科系 Dept. of Life Sciences	
蟹類行為學特論	Advanced Topics in Crab Behaviors	M	A	S	2	B		生科系 Dept. of Life Sciences	
蟹類親緣關係特論	Advanced topics in phylogeny of crabs	M	A	S	2	B		生科系 Dept. of Life Sciences	
植物分類學特論	Special Topics on Plant Taxonomy	M	A	S	2	BCD		生科系 Dept. of Life Sciences	
系統分類學特論	Advanced Topics in Systematic Taxonomy	M	A	S	2	A		生科系 Dept. of Life Sciences	
生物多樣性研究方法	Research Methods on Biodiversity	M	A	S	1	ABCD		生科系 Dept. of Life Sciences	暑期授課 Summer course
自然環境中的生物物理	Biophysics in the Natural Environment	M	A	S	3	ABCD		生科系 Dept. of Life Sciences	
行為生態學	Behavioral Ecology	M	A	S	3	CD		生科系 Dept. of Life Sciences	
親緣關係比較法	Phylogenetic Comparative Methods	M	A	S	3	CD		生科系 Dept. of Life Sciences	
頭足類生物資源	Cephalopod Biology	M	A	S	3	B		生科系 Dept. of Life Sciences	進階課程 Advanced course
生態演化研究方法	Research Methods in Ecology and Evolution	M	A	S	2	D		生科系 Dept. of Life Sciences	
生物力學專題	Special Topics on Biomechanics	M	A	S	3	AD		物理系 Dept. of Physics	進階課程 Advanced course
自然環境中的生物物理	Biophysics in the Natural Environment	M	A	S	3	AD		物理系 Dept. of Physics	進階課程 Advanced course
進階生態學觀念 1	Advanced Concepts in Ecology 1	M	A	S	2	ABCD		生科系 Dept. of Life Sciences	
從DNA到生物多樣性	From DNA to Diversity	M	A	S	2	B		生科系 Dept. of Life Sciences	進階課程 Advanced course
學術口頭報告之指導與培訓	Supervision and training of professional oral presentation	M	A	S	2	D		生科系 Dept. of Life Sciences	進階課程 Advanced course
生科大師講座(一)	Master Lecture in Life Sciences (I)	M	A	S	2	D		生科系 Dept. of Life Sciences	進階課程 Advanced course
生科大師講座(二)	Master Lecture in Life Sciences (II)	M	A	S	2	D		生科系 Dept. of Life Sciences	進階課程 Advanced course

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