

國立臺灣師範大學生命科學系學士班課程地圖

Life Science Undergraduate Course Map

112學年度入學新生適用 For the Students Enrolled in 2023

必修+選修課程(37學分+59學分)
Required + Elective Courses (37+59 Credits)

校定共同必修課程
Common Required
(32學分)

語文通識(10)
Language
Chinese & English

通識課程(18)
General Education Courses

1.博雅課程(8-14學分)

Liberal Arts Course
人文藝術領域(2)
Humanities and Arts
社會科學領域(2)
Social Sciences
自然科學領域(2)
Natural Sciences
邏輯運算領域(2)
Logic and Computing

2.跨域探索(4-10學分)

Cross-domain Exploration
學院共同課程
College Common Course
跨域專業探索課程
Cross-domain Professional
Discovery Course
大學入門
Introduction to University
Studies

3.自主學習(0-4學分)

Self-Directed Learning
專題探究
Inquiry Study
MOOCs
MOOCs

初階服務學習
Basic Service
Learning

體育 I ~IV(4)
Physical Education
I-IV(1)

必修課程(37學分) Required Courses (37 Credits)

普通生物學甲(一)(二) (3+3)
General Biology A (I/II)
普通化學實驗(一) (1)
General Chemistry Laboratory(I)
生物化學實驗(2)
Biochemistry Laboratory
生態學-英/演化論(3)
Ecology-E/Evolution
植物生理學實驗/動物生理學實驗/
細胞及分子生物學實驗(2)
Plant Physiology Laboratory/Animal
Physiology Laboratory/Laboratory Course for
Cellular and Molecular Biology
普通生物學實驗甲(一)(二)(1+1)
General Biology Laboratory A (I/II)
基礎物理/有機化學/基礎微積分(3)
Fundamental Physics/Organic
Chemistry/Basic Calculus
遺傳學(3)
Genetics
分子生物學/細胞生物學(3)
Molecular Biology/Cell Biology
普通化學乙(3)
General Chemistry B
生物化學(4)
Biochemistry
書報討論-英/專題研究(2)
Seminar-E/Research on Special Topics
植物生理學/動物生理學(3)
Plant Physiology/Animal Physiology

選修課程(38~59學分) Elective Courses (38~59 Credits)

初階選修課程 General Elective Courses

基礎物理實驗(1) Fundamental Physics Laboratory	有機化學實驗(1) Organic Chemistry Laboratory	植物形態學/實驗(3/1) Plant Morphology/Laboratory	無脊椎動物學-英/實驗(3/1) Invertebrate Zoology- E/Laboratory
脊椎動物學/實驗(3/1) Vertebrate Zoology/Laboratory	種子植物分類學/實驗(3/1) Taxonomy of Seed-Plants/ Laboratory	微生物學/實驗(3/1) Microbiology/Laboratory	昆蟲學/實驗(2/1) Entomology/Laboratory
人體生理學(3) Human Physiology	保育生物學導論(2) Introduction to Conservation Biology	生態與演化研究概論(2) Introduction to Research on Ecology and Evolutionary Biology	細胞與分子生物學研究概 論(2) Introduction to Research on Cellular and Molecular Biology
生理學研究概論(2) Introduction to Research on Physiology	比較解剖學/實驗(2/1) Comparative Anatomy/ Laboratory	野外生態學(3) Field Ecology	生物資訊學導論(3) Introduction to Bioinformatics
魚類學(3) Ichthyology	動物分類學(2) Principles of Animal Taxonomy	生物技術實驗(1) Biotechnology Laboratory	生物統計學(3) Biometry
藥理學導論(2) Introduction of Pharmacology	免疫學(3) Immunology	進階專題研究(3) Advance Research on Special Topics	

進階選修課程 Advanced Elective Courses

生態演化學領域 Ecology and Evolution Biology Field		生理暨細胞分生領域 Physiology, Cellular, and Molecular Biology Field	
生物地理學(3) Biological Geography	哺乳動物學(2) Mammalogy	組織學-英(2) Histology-E	比較動物生理學(3) Comparative Animal Physiology
兩棲爬蟲動物學(2) Herpetology	疾病生態學(3) Disease Ecology	發育生物學(3) Developmental Biology	骨生物學：基礎及應用(2) Basic and Applied Bone Biology
入侵生物學(3) Biological Invasions	海洋生物學(2) Marine Biology	病毒學(2) Virology	生物技術(3) Biotechnology
系統生物學(3) Principles of Systematic Biology	森林生態學-英(3) Forest Ecology-E	癌生物學(2) Cancer Biology	基因轉殖(2) Transgenic
野生動物學-英(3) Wildlife Biology-E	族群遺傳與演化(3) Population Genetics and Evolution	幹細胞生物學(3) Stem Cell Biology	神經行為學(3) Neuroethology
保育生物學(3) Conservation Biology	地景生態學-英(3) Landscape Ecology-E	植物工廠的概念與體驗學習(2) Concept and Experimental Learning of Plant Factory	內分泌學(3) Endocrinology
鳥類學(3) Ornithology	島嶼生物地理學(3) Island Biogeography	神經生物學(3) Neurobiology	癌症生物學研究法(3) Biometology of Cancer Research
海洋生態學(2) Marine Ecology	昆蟲演化學(3) Evolution of Insects	免疫化學(3) Immunochemistry	病毒學概論-英(2) Introduction in Virology-E
蕨類植物學(3) Pteridology		植物細胞組織培養(3) Plant Cell and Tissue Culture	訊息傳遞(3) Signal Transduction

跨領域選修課程 Interdisciplinary Courses

生物顯微技術含實驗(3) Biological Microtechnique (including Lab.)	生物資訊相關演算法(3) Algorithms in Bioinformatics	自然科學探究與實作課程設計-教程課(2) Curriculum Design for Scientific Inquiry and Practices
生物醫學研究新知與技術(2) The Latest Issues in Biomedical Research and Technology	產業實習(3) Industrial Practice	生物探究與實作-教程課(2) Inquiry and Practice in Biology
生物資訊應用程式語言(3) Programming Language in Bioinformatics	癌症生物學期刊論述-英(2) Oncology Journal reading and discussion-E	藥物開發與轉譯醫學-英(2) Drug Development and Translational Medicine-E
		新藥與中草藥轉譯醫學(2) Translational Medicine—Novel Compounds and Chinese Herbal Medicines

自由選修學分：非生科系之課程不得多於21學分 Free Elective Credits：≤ 21 Credits

畢業 Graduation (128 Credits)