

國立臺灣師範大學生命科學系學士班課程地圖

Course Curriculum for Undergraduate Students in Life Science

113學年度入學新生適用 for Students Starting Fall 2024

必修+選修課程(37學分+59學分)

Required + Elective Courses (37+59 Credits)

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

脊椎動物學/實驗(3/1)

Vertebrate Zoology/ Laboratory

人體生理學(3)

Human Physiology

生理學研究概論(2)

Introduction to Research on
Physiology

魚類學(3)

Ichthyology

藥理學導論(2)

Introduction of Pharmacology

有機化學實驗(1)

Organic Chemistry Laboratory

種子植物分類學/實驗(3/1)

Taxonomy of Seed-Plants/
Laboratory

保育生物學導論(3)

Introduction to Conservation
Biology

比較解剖學/實驗(2/1)

Comparative Anatomy/
Laboratory

免疫學(3)

Immunology

植物形態學/實驗(3/1)

Plant Morphology/Laboratory

微生物學/實驗(3/1)

Microbiology/Laboratory

生態與演化研究概論(2)

Introduction to Research on
Ecology and Evolutionary
Biology

生物技術實驗(1)

Biotechnology Laboratory

進階專題研究(3)

Advance Research on Special
Topics

無脊椎動物學/實驗(3/1)

Invertebrate Zoology/Laboratory

昆蟲學/實驗(2/1)

Entomology/ Laboratory

細胞與分子生物學研究概
論(2)

Introduction to Research on
Cellular and Molecular Biology

生物資訊學導論(3)

Introduction to Bioinformatics

生物統計學(3)

Biometry

進階選修課程 Advanced Elective Courses

生態演化學領域 Ecology and Evolution Biology Field

生物地理學(3)

Biological Geography

兩棲爬蟲動物學(2)

Herpetology

入侵生物學(3)

Biological Invasions

系統生物學(3)

Principles of Systematic
Biology

野生動物學-英(3)

Wildlife Biology-E

鳥類學(3)

Ornithology

海洋生態學(2)

Marine Ecology

蕨類植物學(3)

Pteridology

野外生態學(3)

Field Ecology

哺乳動物學(2)

Mammalogy

海洋生物學(2)

Marine Biology

森林生態學-英(3)

Forest Ecology-E

族群遺傳與演化(3)

Population Genetics and
Evolution

地景生態學-英(3)

Landscape Ecology-E

島嶼生物地理學(3)

Island Biogeography

昆蟲演化學(3)

Evolution of Insects

田野生態調查技術(3)

Field ecology survey
techniques

生態產業實習(3)

Internship in Ecological
Industry

生理暨細胞分生領域 Physiology, Cellular, and Molecular Biology Field

組織學-英(2)

Histology-E

發育生物學(3)

Developmental Biology

病毒學(2)

Virology

癌生物學(2)

Cancer Biology

幹細胞生物學(3)

Stem Cell Biology

植物工廠的概念與體驗學習(2)

Concept and Experimental Learning of
Plant Factory

神經生物學(3)

Neurobiology

免疫化學(3)

Immunochimistry

植物細胞組織培養-英(3)

Plant Cell and Tissue Culture-E

植物病理(3)

Plant Pathology

比較動物生理學(3)

Comparative Animal Physiology

骨生物學：基礎及應用(2)

Basic and Applied Bone Biology

生物技術(3)

Biotechnology

基因轉殖(2)

Transgenic

神經行為學(3)

Neuroethology

內分泌學(3)

Endocrinology

癌症生物學研究法(3)

Biomethology of Cancer Research

病毒學概論-英(2)

Introduction in Virology-E

訊息傳遞(3)

Signal Transduction

植物分子生物學-英(2)

Plant Molecular Biology-E

植物基因工程(3)

Plant Genetic Engineering

跨領域選修課程 Interdisciplinary Courses

生物顯微技術含實驗(3)

Bioluminum Microtechnique (including Lab.)

生物醫學研究新知與技術(2)

The Latest Issues in Biomedical Research and
Technology

生物資訊應用程式語言(3)

Programming Language in Bioinformatics

生物醫學工程概論(3)

Introduction to Biomedical Engineering

生物資訊相關演算法(3)

Algorithms in Bioinformatics

產業實習(3)

Industrial Practice

癌症生物學期刊論述(2)

Oncology Journal reading and
discussion

生醫材料概論-英(3)

Introduction to Biomaterials-E

自然科學探究與實作課程設計-教程課(2)

Curriculum Design for Scientific Inquiry and Practices

生物探究與實作-教程課(2)

Inquiry and Practice in Biology

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)