

國立陽明交通大學 生命科學系暨基因體科學研究所(生醫光電與資訊組)

必選修科目表 (114 學年度入學新生適用)

List of Courses for Department of Life Sciences and Institute of Genome Sciences( Biophotonics and Informatics) in NYCU

(Applicable to Newly-Admitted Students from Academic Year 2024)

一、系訂必修課程 Required courses

課程名稱 Course Name	學分 Credit	一年級 Grade 1		二年級 Grade 2		三年級 Grade 3		四年級 Grade 4		備註
		上 1st	下 2nd	上 1st	下 2nd	上 1st	下 2nd	上 1st	下 2nd	
微積分(一) Calculus(I)	2	2								
微積分(二) Calculus(II)	2		2							
普通物理學(一) General Physics(I)	2	2								
普通物理學(二) General Physics(II)	2		2							
物理學實驗 Physics Laboratory	1		1							
生命科學總論(上) General Biology, 1st semester	2	2								
生命科學總論(下) General Biology, 2nd semester	2		2							
生命科學實驗 Life Science Laboratory	2	2								
遺傳學原理的實作與應用 Laboratory in Fundamental Genetics and its Applications	2		2							
化學原理(一) Principles of Chemistry(I)	2	2								
化學原理(二) Principles of Chemistry(II)	2		2							
化學原理實驗 Chemical Principle Lab	1	1								
有機化學 Organic Chemistry	3		3							
計算機概論 Introduction to Computer Science	2	2								
抽象思考與演算法 Abstraction and Algorithms	2		2							
生涯發展與學習(一上) Career Development and Preparation I, 1st Semester	1	1								
生涯發展與學習(一下) Career Development and Preparation I, 2nd Semester	1		1							
模擬系統與數據分析 Simulation Models and Data Analysis	2			2						



Paper Reading and Analysis,1st semester										
論文閱讀與分析方法(下) Paper Reading and Analysis,2nd semester	1								1	
體育 physical Education	0	0	0	0	0	0	0			
導師時間 Class Meeting	0					0	0	0	0	
必修學分 Required credits	65	14	17	12	12	25	9	1	1	

## 二、系選修課程 Elective courses

課程名稱 Course Name	學分 Credit	一年級 Grade 1		二年級 Grade 2		三年級 Grade 3		四年級 Grade 4		備註
		上 1st	下 2nd	上 1st	下 2nd	上 1st	下 2nd	上 1st	下 2nd	

### 說明 Explanation：

#### 一、本學系最低畢業學分為 128 學分，包含：

The minimum number of credits required for graduation from this department is 128 credits, including:

##### (一) 校共同課程至少 24 學分

At least 24 credits in University Common Courses

1. 核心課程：根據本校核心課程修習辦法辦理，至少修畢 18 學分，其中基本素養課程至少 6 學分，領域課程至少 8 學分。

Core Courses: according to the university's core curriculum regulations, at least 18 credits must be completed, including at least 6 credits in fundamental literacy courses and at least 8 credits in domain courses.

2. 語言與溝通課程：根據本校語言與溝通課程修習辦法辦理，至少修畢 6 學分，其中英文課程至少 4 學分。

Language and Communication Courses: according to the university's language and communication curriculum regulations, at least 6 credits must be completed, including at least 4 credits in English courses.

3. 其他必修：

Other required courses:

- (1) 體育課程 0 學分，6 學期，依本校體育課程實施辦法辦理。

Physical Education Courses: 0 credits, 6 semesters, in accordance with the university's physical education course implementation regulations

- (2) 服務學習課程：依本校服務學習課程實施辦法辦理，需修畢通過二門「基礎服務學習課程」或一門「專業服務學習課程」。

Service Learning Courses: in accordance with the university's service learning course implementation regulations, students must complete and pass either two "Basic Service Learning Courses" or one "Professional Service Learning Course."

- (3) 學生學術及研究倫理教育課程：依本校學生學術研究倫理教育課程實施要點辦理。

Student Academic and Research Ethics Education Courses: in accordance with the university's student academic and research ethics education course implementation guidelines

- (4) 性別平等教育線上課程：依本校性別平等教育線上課程實施要點辦理。

Online Gender Equality Education Courses: in accordance with the university's online gender equality education course implementation guidelines

- (5) 導師時間：依本校導師制度實施辦法辦理。

Mentor Time: in accordance with the university's mentor system implementation regulations

##### (二) 系訂必修課程 65 學分；系選修課程 0 學分；自由彈性選修 39 學分。

Department-required courses: 65 credits; department elective courses: 0 credits; free elective courses: 39 credits

#### 二、選修課程以當學期開課資料為準。

Elective courses are based on the course offered for the current semester.