



教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	普通生物學(一)			學年/學期 Academic Year/Semester	114/2			
課程名稱(英文) Course Name in English	General Biology (I)							
科目代碼 Course Code	CES_10600	系級 Department & Year	學一	開課單位 Course-Offering Department	環境暨海洋學院			
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)	3.0/3.0					
授課教師 Instructor	/周志青							
先修課程 Prerequisite								

課程描述 Course Description

協助學生瞭解生物學之基本概念、原理與原則；學習自然科學的邏輯思維與分析方法，培養觀察與探索生命與生物世界的意願與興趣，奠定環境與自然資源專業課程所需的生物學基礎。

課程目標 Course Objectives

協助學生瞭解生物學之基本概念、原理與原則；學習自然科學的邏輯思維與分析方法，培養觀察與探索生命與生物世界的意願與興趣，奠定環境與自然資源專業課程所需的生物學基礎。

院基本素養與核心能力 College Basic Learning Outcomes		課程目標與院基本素養與核心能力 Correlation between Course Objectives and Basic Learning Outcomes
A	具備自然科學與社會科學的基礎知識To be knowledgeable of fundamental theories in the natural and social sciences.	●
B	具備觀察、理解、闡釋自然環境與人類社會互動及變遷關係的能力To be able to observe, understand, and interpret the changing interactions of natural resources and human society.	●
C	具備多元資料收集策略、閱讀論文、撰寫環境報導及創意口頭報告的能力To have the ability to collect data, understand scientific literature, and write and present environmentally related reports.	●
D	能終身學習、對環境維持熱情、關懷、並願意做出對在地環境獻身的承諾To cultivate the values of lifelong learning, to maintain enthusiasm and concern for the environment, and to develop commitment to the local environment.	
E	具備環境倫理觀、社會責任感與社會實踐力To develop and implement environmental ethics and social responsibility.	
F	具備獨立思考、溝通協調與團隊合作的能力To think independently, to communicate effectively, and to cooperate with others as a team.	
G	具備基本外國語文能力The be able to communicate in a foreign language.	●

圖示說明 Illustration : ● 高度相關 Highly correlated ○ 中度相關 Moderately correlated

授課進度表 Teaching Schedule & Content

週次 Week	內容 Subject/Topics	備註 Remarks
1	Introduction	
2	Chapter 2 The Chemical Basis of Life	
3	Chapter 3 The Molecules of Cells	

4	Chapter 4 A Tour of the Cell	
5	Chapter 5 The Working Cell	
6	Chapter 6 How Cells Harvest Chemical Energy	
7	Chapter 7 Photosynthesis I	
8	Chapter 7 Photosynthesis II	
9	期中考試週 Midterm Exam	
10	Chapter 8 The Cellular Basis of Reproduction and Inheritance I	
11	Chapter 8 The Cellular Basis of Reproduction and Inheritance II	
12	Chapter 9 Patterns of Inheritance	
13	Chapter 10 Molecular Biology of the Gene	
14	Chapter 11 How Genes Are Controlled I	
15	Chapter 11 How Genes Are Controlled II	
16	Chapter 12 DNA Technology and Genetics	
17	期末考試週 Final Exam	
18	Flexible Supplemental Instruction Week	

教學策略 Teaching Strategies

課堂講授 Lecture 分組討論 Group Discussion 參觀實習 Field Trip
 其他 Miscellaneous:

教學創新自評 Teaching Self-Evaluation

創新教學 (Innovative Teaching)

問題導向學習 (PBL) 團體合作學習 (TBL) 解決導向學習 (SBL)
 翻轉教室 Flipped Classroom 磨課師 Moocs

社會責任 (Social Responsibility)

在地實踐 Community Practice 產學合作 Industry-Academia Cooperation

跨域合作 (Transdisciplinary Projects)

跨界教學 Transdisciplinary Teaching 跨院系教學 Inter-collegiate Teaching

業師合授 Courses Co-taught with Industry Practitioners

其它 other:

學期成績計算及多元評量方式 Grading & Assessments

配分項目 Items	配分比例 Percentage	多元評量方式 Assessments						
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定
平時成績(含出缺席) General Performance (Attendance Record)	10%							出席率
期中考成績 Midterm Exam	45%	✓						
期末考成績 Final Exam	45%	✓						
作業成績 Homework and/or Assignments								
其他 Miscellaneous (_____)								

評量方式補充說明
Grading & Assessments Supplemental instructions

教科書與參考書目 (書名、作者、書局、代理商、說明)

Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.)

Campbell Biology, Concepts & Connections, 10th Ed., Taylor et al., 2022 (偉明圖書代理)

課程教材網址(含線上教學資訊, 教師個人網址請列位於本校內之網址)

Teaching Aids & Teacher's Website (Including online teaching information.

Personal website can be listed here.)

其他補充說明 (Supplemental instructions)