



## 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	112/2	
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/李漢榮				
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 / Chapter 4 A Tour of the Cell			周志青	
2	No class			周志青	
3	Chapter 5 The Working Cell			周志青	

4	Chapter 6 How Cells Harvest Chemical Energy	周志青
5	Chapter 7 Photosynthesis I	周志青
6	Chapter 7 Photosynthesis II	周志青
7	No classes	周志青
8	Chapter 16 Microbial Life: Prokaryotes and Protists II	周志青
9	Chapter 20 Unifying Concepts of Animal Structure and Function (線上教學)	李漢榮
10	Chapter 21 Nutrition and Digestion (線上教學)	李漢榮
11	期中考試週 Midterm Exam	周志青
12	Chapter 22 Gas Exchange, Chapter 23 Circulation	李漢榮
13	Chapter 24 The Immune System	李漢榮
14	Chapter 25 Control of Body Temperature and Water Balance	李漢榮
15	Chapter 26 Hormones and the Endocrine System	李漢榮
16	Chapter 28 Nervous Systems	李漢榮
17	期末考試週 Final Exam	李漢榮
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	其他
平時成績 General Performance	20%								出席率
期中考成績 Midterm Exam	40%	✓							
期末考成績 Final Exam	40%	✓							
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)