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②國玄東華大學

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/Se	113/2		
課程名稱(英文) Course Name in English	General Biology (I)							
科目代碼 Course Code	CES_10600	系級 Department 學一 & Year		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.	•
В	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.	•
С	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.	
Е	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	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							
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) ■ ■體合作學習(TBL) 解決導向學習(SBL)							
翻轉教室 Flipped Classroom							
社會責任(Social Responsibility)							
在地實踐Community Practice							
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	配分比例 Percentage	多元評量方式 Assessments								
Items		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(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)