國立東華大學

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/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 Industy-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(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)