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②图玄東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	植物生理學				學年/學期 Academic Year/Semester		112/2
課程名稱(英文) Course Name in English	Plant Physiology						
科目代碼 Course Code	LF20200	系級 Department 學二 & Year		開課單位 Course-Offering Department	2	生命科學系	
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)		3.0/3.0			
授課教師 Instructor	/林國知						
先修課程 Prerequisite							
知识社法 Course Description							

課程描述 Course Description

教導學生瞭解植物生理如何運行及其如何調節以適應環境。

課程目標 Course Objectives

了解植物組織結構及其生理功能。

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	Course introduction	
2	Chapter 1 Plant cells and water	
3	Chapter 2 Whole plant water relations	
4	Chapter 3 Root, soils, and nutrient uptake	
5	Chapter 4 Plants and inorganic nutrients	
6	Chapter 6 The dual role of sunlight: Energy and information	
7	Chapter 7 Energy conservation in photosynthesis: Harvesting sunlight	
8	民族掃墓節放假	
9	4/10 期中考試 Midterm Exam	
10	Chapter 8 Energy conservation in photosynthesis: CO2 assimilation	
11	Chapter 8 Energy conservation in photosynthesis: CO2 assimilation	
12	Chapter 15 Adaptations to the Environment (C4 and CAM photosynthesis)	
13	Chapter 9 Allocation, translocation, and partitioning of photoassimilates	
14	Chapter 11 Nitrogen assimilation	
15	Chapter 22 Photomorphogenesis	

16	期末考試							
17	端午節放假							
18	學期複習							
教學策略 Teaching Strategies								
▼課堂講授 Lecture 分組討論Group Discussion 参觀實習 Field Trip								
其他Miscellaneous:								
	教學創新自評Teaching Self-Evaluation							
創新教學(I	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								
社會責任(Social Responsibility)								
□ 在地實踐Community Practice □ 產學合作 Industy-Academia Cooperation								
□ 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	r:							

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 General Performance									
期中考成績 Midterm Exam	50%	~							
期末考成績 Final Exam	50%	~							
作業成績 Homework and/or Assignments									
其他 Miscellaneous (出席率)	5%	~							

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.)

Textbook : Introduction to Plant Physiology by Hopkins and Hüner (4ed. 2012)

Reference: Plant Physiology (4ed. 2006) by Taiz and Zeiger

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)