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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 & Year	Department 學二		開課單位 Course-Offering Department	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							
细块++it 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								
其他Mis	scellaneous:							
	教學創新自評Teaching Self-Evaluation							
創新教學(I	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								
業師合持	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(含出缺席) General Performance (Attendance Record)									
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)