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② 图 i 東華大學 教學計劃表 Syllabus

教学計劃表 Syllabus									
	名稱(中文) me in Chinese	細胞生物學AA		學年/學期 Academic Year/Seme	ester	112/1			
	名稱(英文) me in English	Cell Biology							
	目代碼 rse Code	LF2090AA	生	生命科學系					
	修別 Type	學程 Program 學分數/時間 Credit(s)/Hour(s) 4.0/4.0							
	課教師 tructor	/林國知/袁大鈞							
	先修課程 Prerequisite								
		課	程描述 Course Descrip	tion					
	解細胞之基本結構		象的分子機制。 nce, the last 20% (or a	above) of the studer	ate mich	t he failed			
Daseu OII II	ic records or st	-	ace, the last 20% (or a 程目標 Course Object		ırə miği	ı De Talled.			
		w _t c	,, coarse object						
了解細胞生物	物學之基本概念。								
課程目標與系專業 力相關性 《A專業能力 Basic Learning Outcomes Basic Learning Outcomes Basic Learning Outcomes and Dept.'s Education Objectives									
A 具備生	命科學相關學科之	基礎知識Having th	ne basic knowledge of lif	e science.		•			
K I	B 具備邏輯分析與解決問題的能力Having the capabilities of logical analysis and problem solving								
C 具備資料整合、數據分析與書面及口頭報告之能力Having the capabilities of data integration and analysis, and the skills of written and poster presentation.						0			
D 具備終	-生學習的能力Havir	ng the capability	of lifelong learning.						
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	Neek 内容 Subject/Topics				俳	備註Remarks			
1	Ch 1: A preview of Cell Biology Ch 2: The chemistry of the cell				林國知				
2	Ch 3: The macro	林國知							
3	Ch 7: Membrane	Ch 7: Membrane structure 林國知							
4	Ch 4 Cells and organelles Ch 12: The endomembrane system								
5		0/9 國慶日停課一天 0/11 林國知老師第一次考試							
6	6 Ch 12: The endomembrane system Ch 10 & 11: Chemiosmotic coupling model of ATP synthesis								

7	Ch 16, 19, 20: Protein targeting and sorting (Ch 16.4, 19.5, 20.4)	林國知					
8	Ch 8: Transport across membrane	林國知					
9	11/6 林國知老師第二次考試 11/8 袁大鈞老師開始上課 Ch 13: Cytoskeletal systems	林國知袁大鈞					
10	Ch 13: Cytoskeletal systems (11/15 全校運動會停課一次)	袁大鈞					
11	Ch 14: Cellular movement:: motility and contractility	袁大鈞					
12	Ch 15: Beyond the cell : Extracellular structures	袁大鈞					
13	12/4 袁大鈞老師第一次考試 Ch 22: Signal transduction mechanisms: I. Electrical and synaptic signaling in neurons	袁大鈞					
14	Ch 23: Signal transduction mechanisms: II. Messengers and receptors	袁大鈞					
15	Ch 23: Signal transduction mechanisms: II. Messengers and receptors	袁大鈞					
16	Ch 24: The cell cycle and mitosis	袁大鈞					
17	1/1 元旦放假一天 Ch 24: The cell cycle and mitosis	袁大鈞					
18	1/8 袁大鈞老師第二次考試	袁大鈞					
	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) 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							
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 General Performance	0%								
期中考成績 Midterm Exam	50%	~							林國知 50%
期末考成績 Final Exam	50%	~							袁大鈞 50%
作業成績 Homework and/or Assignments	0%								
其他 Miscellaneous	0%								

評量方式補充說明

Grading & Assessments Supplemental instructions

教師考試成績總和;林國知50%,袁大鈞50%

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:

1. Becker's World of the Cell (10/E, 2022) by Hardin et al.

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)