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② 图 z 東華大學 教學計劃表 Syllabus

		秋气	产計劃衣	Sy 11	abus				
	名稱(中文) me in Chinese	遺傳學 學年/學期 Academic Year/Semes				ester	112/1		
	名稱(英文) me in English	Genetics							
	-目代碼 rse Code	系級 開課單位 Course-Offering Department & Year					生命科學系		
	修別 Type	學程 Program	0/3.0						
	課教師 tructor	/林國知							
	多課程 quisite								
課程描述 Course Description									
藉由上課講解及討論讓學生由淺入深、了解傳統之古典遺傳學及現代分子遺傳學之遺傳現象									
		課	程目標 Cour	se Object:	ives				
了解古典遺作		之理論及研究之	 法。						
						细。	程目標與系專業能		
系專業能力 Basic Learning Outcomes							力相關性 Correlation between Course Objectives and Dept.'s Education Objectives		
	命科學相關學科之						•		
solvii	ng		-		nnalysis and problem		•		
	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.								
D 具備終生學習的能力Having the capability of lifelong learning.							•		
- 圖示說明[]	llustration :	● 高度相關 Hi	ighly correla	ated 〇中	度相關 Moderately	corre	lated		
		授課進	度 表 Teachin	g Schedule	e & Content				
週次Week	次Week 内容 Subject/Topics				,	備註Remarks			
1	Chapter 1: Introduction								
2	Chapter 2: Mitosis and meiosis								
3	Chapter 3: Mendelian genetic								
4									
5	Chapter 4: Extension of Mendelian genetics Chapter 7: Chromosome mapping in eukaryotes								
6	Chapter 7: Chro								
7	7 Chapter 5: Sex determination and sex chromosome								

8	Chapter 5: Sex determination and sex chromosome							
9	11/8 期中考 Midterm Exam							
10	11/15 全校運動會停課一天							
11	Chapter 6: Chromosome mutation: Variation in chromosome number and arrangement							
12	Chapter 6: Chromosome mutation: Variation in chromosome number and arrangement							
13	Chapter 13: Definition of genes Chapter 13 (Supplement): Molecular analysis of genes and gene products							
14	Chapter 15: Gene mutation, DNA repair, and transposition							
15	Chapter 19: Epigenetic regulation of gene expression							
16	Chapter 21: Genomics, bioinformatics, and proteomics							
17	1/3 期末考試週 Final Exam							
18								
教學策略 Teaching Strategies								
✓ 課堂講授 Lecture								
教學創新自評 Teaching Self-Evaluation								
創新教學(Innovative Teaching)								
問題導向學習(PBL) ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■								
翻轉教室 Flipped Classroom 磨課師 Moocs								
社會責任(Social Responsibility)								
在地實踐Community Practice								
一跨界教學Transdisciplinary Teaching 一跨院系教學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									
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 (Class attendance)	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.)

Concept of Genetics, by Klug et al., 2020, 12th ed (偉明書局)

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)