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②國玄東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	生物化學(二)				學年/學期 Academic Year/Semester		113/2
課程名稱(英文) Course Name in English	Biochemistry(II)						
科目代碼 Course Code	СНЕМ30700	系級 Department & Year	學三	開課單位 Course-Offering Department		化學系	
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)		3.0/3.0			
授課教師 Instructor	/李佳洪/蘇玟?						
先修課程 Prerequisite							
Troroquiorio	١	### Cours	no Doca	. ,			

課程描述 Course Description

學習生化代謝原理與應用.

課程目標 Course Objectives

介紹各種分子的新陳代謝現象及說明蛋白質的折疊、抗體與受體的作用,使學生明瞭生物化學與生命之相關性。

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; Introduction to metabolism	
2	Introduction to metabolism; Glycolysis,	
3	Gluconeogenesis, and the pentose phosphate pathway	
4	The metabolism of glycogen in animal	
5	The citric acid cycle	
6	Fatty acid catabolism	
7	Lipid biosynthesis	
8	放假	
9	期中考-1	
10	Oxidative phosphorylation (Chap19)	
11	Oxidative phosphorylation (Chap19) Photosynthesis (Chap 20)	
12	Photosynthesis (Chap 20)	
13	Carbohydrate synthesis in plant (Chap 20)	
14	Carbohydrate synthesis in plant (Chap 20) Amino acid oxidation and the production of urea (Chap 18)	
15	Amino acid oxidation and the production of urea (Chap 18)	

16	Biosynthesis of amino acid, nucleotide, and related molecule (Chap 22)	
17	Biosynthesis of amino acid, nucleotide, and related molecule (Chap 22) Hormonal regulation and integration of mammalian metabolism (Chap 23)	
18	期末考試週 Final Exam	
	教 學 策 略 Teaching Strategies	
課堂講	授 Lecture	Field Trip
其他Mis	scellaneous:	
	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	基習(SBL)
翻轉教	室 Flipped Classroom	
社會責任(Social Responsibility)	
在地實	選Community Practice 產學合作 Industy-Academia Cooperati	on
跨域合作(Transdisciplinary Projects)	
	學Transdisciplinary Teaching 跨院系教學Inter-collegiate Teaching	S
業師合	授 Courses Co-taught with Industry Practitioners	
其它 othe	r: 	

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 General Performance	10%								
期中考成績 Midterm Exam									
期末考成績 Final Exam									
作業成績 Homework and/or Assignments									
其他 Miscellaneous ()									
	Grading & A		量方式和 ents Sup			ruction	s		

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.)

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)