



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	114/2	
課程名稱(英文) Course Name in English	Biochemistry (II)				
科目代碼 Course Code	BMM_22000	系級 Department & Year	學三	開課單位 Course-Offering Department	生化暨分子醫學科學系
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)	3.0/3.0		
授課教師 Instructor	/李佳洪/蘇玟?/林哲緯				
先修課程 Prerequisite					
課程描述 Course Description					
使學生了解體內化合物於細胞的新陳代謝及其生理意義					
課程目標 Course Objectives					
使學生了解體內化合物於細胞的新陳代謝及其生理意義					
系專業能力 Basic Learning Outcomes				課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives	
A	具備生命科學相關學科之基礎知識。Having the basic knowledge of life science.			●	
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.			○	
D	具備終生學習的能力。Having 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	內容 Subject/Topics			備註 Remarks	
1	Ch17 Metabolism: An Overview				
2	Ch 18 Glycolysis				
3	Ch 19 The Tricarboxylic Acid Cycle				
4	Ch 22 Gluconeogenesis, Glycogen Metabolism, and the Pentose Phosphate Pathway				
5	Ch 22 Gluconeogenesis, Glycogen Metabolism, and the Pentose Phosphate Pathway				
6	第一部分考試				
7	Ch 23 Fatty Acid Catabolism				

8	Ch 24 Lipid Biosynthesis.	
9	第二部分考試	
10	Ch 20 Electron Transport and Oxidative Phosphorylation	
11	Ch 20 Electron Transport and Oxidative Phosphorylation Ch 21 Photosynthesis	
12	Ch 21 Photosynthesis	
13	Ch 25 Nitrogen Acquisition and Amino Acid Metabolism	
14	Ch 25 Nitrogen Acquisition and Amino Acid Metabolism Ch 26 Synthesis and Degradation of Nucleotides.	
15	Ch 26 Synthesis and Degradation of Nucleotides.	
16	Ch 27 Metabolic Integration and Organ Specialization.	
17	第三部分考試	
18	學生自主學習	

教學策略 Teaching Strategies

- 課堂講授 Lecture
 分組討論 Group Discussion
 參觀實習 Field Trip
- 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
 產學合作 Industry-Academia Cooperation

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 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(含出缺席) General Performance (Attendance Record)									
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 (_____)									

評量方式補充說明

Grading & Assessments Supplemental instructions

第一部分(33%)，第二部分(17%)，第三部分(50%)，詳細成績計算方式以課堂宣布為主。

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)