



課 綱 Course Outline

生命科學系學士班

中文課程名稱 Course Name in Chinese		營養與代謝			
英文課程名稱 Course Name in English		Nutrition & Metabolism			
科目代碼 Course Code		LF__22130	班 別 Degree	學士班 Bachelor' s	
修別 Type		學程 Program	學分數 Credit(s)	2.0	時 數 Hour(s) 2.0
先修課程 Prerequisite					
課程目標 Course Objectives					
教導學生了解各種營養物質的生化特性以及其代謝路徑的相關之調控機制和訊息傳導路徑。					
系教育目標 Dept.' s Education Objectives					
1	培養從事生命科學相關領域之人才 Cultivating talents engaged in life science				
2	培育學生具有自我學習、獨立思考與創新之能力 Fostering students to acquire the capabilities of self-learning, independent thinking, and innovation.				
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					
課程大綱 Course Outline					

1.	Energy metabolism
2.	Carbohydrate ---- absorption/digestion
3.	Metabolism of carbohydrate
4.	Lipids ---- absorption/digestion
5.	Metabolism of lipids
6.	Lipids & chronic disease
7.	Amino acid/protein
8.	Metabolism of amino acid/protein
9.	Micronutrients ---- vitamins
10.	Micronutrients ----minerals
11.	Obesity, Metabolic Syndrome
資源需求評估（師資專長之聘任、儀器設備的配合．．．等） Resources Required (e.g. qualifications and expertise, instrument and equipment, etc.)	
現有合宜專任師資；提供投影機等教學用具；購置訂閱細胞代謝、營養生化等相關圖書及期刊。	
課程要求和教學方式之建議 Course Requirements and Suggested Teaching Methods	
除主題講授外，本課程亦將適時選擇營養代謝領域中之期刊文章進行導讀與討論；另外，修課同學也須就各主題蒐集料進行口頭報告。	
其他 Miscellaneous	