朝陽科技大學 099學年度第1學期教學大綱
Biochemistry(I) 生物化學(一)

當期課號	1675	Course Number	1675
授課教師	劉炳嵐	Instructor	LIU,BING LAN
中文課名	生物化學(一)	Course Name	Biochemistry(I)
開課單位	應用化學系(四日)三B	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	生物化學是一門研究組成生命基礎分子的學科，生化學家已找出生命過程中一些基礎之化學與物理原理。本課程爲入門基礎， 將以探討基因與蛋白質合成相關課程爲主，包括生物化學之介紹、生物分子之基本結構、特性與功能; 生物訊息之流向。	Objectives	Biochemistry is the investigation of the molecular basis of life. Throughout the history of this scientific discipline, biochemists have worked to reveal the fundamental chemical and physical principles that underlie living processes. This course is designed for beginners. The course The lecture topics covered DNA properties and protein biosynthesis. This will focus on introduction of biochemistry, structure and function of biomolecules, and biological information flow.
教材	Essential Biochemistry (4th Ed., 2004) by Partt & Cornely (偉明書局代理)	Teaching Materials	Essential Biochemistry (4th Ed., 2004) by Partt & Cornely (Wei Ming Book Co., Ltd.)
成績評量方式	1. 平時考試 + 期末考 90% 2. 平時成績 10%	Grading	1. Test & Final exam 90% 2. Lecture performance 10%
教師網頁	http://www.cyut.edu.tw/~applchem/binglan/index01.htm		
教學內容	1. 生命的化學基礎 2. 從基因到蛋白質 3. 肌紅蛋白與血紅素：蛋白質結構與功能之研究 4. 細胞骨架與驅動蛋白 5. 生物膜 6. 哺乳動物之代謝與自由能概論 7. 葡萄糖代謝	Syllabus	1. The Chemical Basis of Life 2. From Genes to Proteins 3. Myoglobin and Hemoglobin: A Study of Protein Structure and Function 4. Cytoskeletal and Motor Protein 5. Biological Membranes 6. Overview of Mammalian Metabolism and Free Energy 7. Glucose Metabolism

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