# 朝陽科技大學 098學年度第1學期教學大綱
# Biochemistry(I) 生物化學(一)

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| **當期課號** | 1851 | **Course Number** | 1851 |
| **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A | **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** | Horton (2006) Principles of Biochemistry (歐亞書局) | **Teaching Materials** | Horton (2006) Principles of Biochemistry (Euroasia Book Co.) |
| **成績評量方式** | 1. 平時考試+期末考試 90%<br>3. 平時成績 10% | **Grading** | 1. Test & Final exam 90%<br>3. Lecture performance 10% |
| **教師網頁** | http://www.cyut.edu.tw/~applchem/binglan/index01.htm | | |
| **教學內容** | 1. 簡介<br>2. 氨基酸與胜肽<br>3. 蛋白質之二、三、四級結構<br>4. 碳水化合物<br>5. 脂質、膜及其運送<br>6. 核酸化學 | **Syllabus** | 1. Introduction<br>2. Amino acids and polypeptides<br>3. Proteins: secondary, tertiary, and quaternary structure<br>4. Carbohydrates<br>5. Lipids and protein are associated in the biological membrane<br>6. Nucleic acids: How structure conveys information |

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