朝陽科技大學 096學年度第1學期教學大綱
Structural Biology 結構生物學

當期課號	7181	**Course Number**	7181
授課教師	錢偉鈞	**Instructor**	CHIEN,WEI JYUN
中文課名	結構生物學	**Course Name**	Structural Biology
開課單位	應用化學系碩士班一A	**Department**	
修習別	選修	**Required/Elective**	Elective
學分數	3	**Credits**	3
課程目標	本課程之目的，在於使學生瞭解生物性巨分子其結構與空間上的排列如何影響它的功能，課程藉由結合理論、研究方法(包括重要結構生物電腦軟體之學習和使用)和在每一個主題中的多個經典之成功案例來瞭解結構生物學與生物物理的基本知識，使學生以及欲對結構生物學有興趣之學生，可以有系統地熟悉結構生物學之實質研究內容和實驗方法，並對結構生物學之優點和貢獻有完整而清晰之認識。	**Objectives**	The primary scientific and technological objective is the understanding of how the function of biological macromolecules is related to their structure and spatial organisation, and the design of improved biomolecules with the desired properties. Towards this long-term objective, the approach followed in this area will focus on technological means irrespective of the types of molecules or subjects those means will be applicable to. Our goal is that, by the end of the course, the student will have a basic understanding of all of the techniques of modern structural biology and biophysics, so that he or she can then both read the relevant scientific literature critically and also understand laboratory work in the field.
教材	講義 結構生物學相關期刊 BMC Strucutral Biologyhttp://www.biomedcentral.com/bmcstructbiol/	**Teaching Materials**	handout for lecture Structural biology journals http://www.biomedcentral.com/bmcstructbiol/
成績評量方式	期 中 考 30% 文獻心得 30% 期末報告 40%	**Grading**	midterm exam 30% midterm report 30% final report 40%
教師網頁	http://www.cyut.edu.tw/~wjchien		
教學內容	生物巨分子結構與功能 生物資訊相關資源 光譜方法 文獻研討	**Syllabus**	Structural-function relationship of Bio-macromolecules Resource of Bioinformatics Methods of spectroscopy Journal study