朝陽科技大學 091學年度第1學期教學大綱
Special Topics in Biology 生物特論

當期課號	1943	Course Number	1943
授課教師	賴龍山	Instructor	LAI,LONG SHAN
中文課名	生物特論	Course Name	Special Topics in Biology
開課單位	應用化學系(四日)二A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標		Objectives	
教材	上課講授 本課程鼓勵同學提問或參與討論 DNA分子模型,投影片與錄影帶	Teaching Materials	Teaching and discussions at class, DNA molecular model, and vedio tapes
成績評量方式	兩次小考,期中考,期末考以及一次專題報告各占20%;平時的上課期間則不定期點名,每點到一次名加學期總成績一分(此部份以十分爲限).	Grading	Course grading will be based on the following five grading(20% for each): (1). Exam (I) (2). Mid.term exam. (3). Exam (II) (4). Final exam. (5). Oral report on special topics. Bonus credits with the maximum of 10% of the final course evaluation will given mainly based on course attendance.
教師網頁	_		
教學內容	正統的生物學教育包括國小、國中、高中以及研究所之教學，主要涵蓋兩大部份：傳統生物學與分析生物學；前者包括人類感官所認知的動物、植物等(例如動物會動、植物會開花)，它是一種認知的生物學，而後者則是利用已知的物理、化學原理來探求生命現象的表徵，它用到電子顯微鏡、電泳儀、超高速離心機等作爲生物及其代謝物質的分析，主要依賴包括細胞學、生化學與遺傳學。近年來生命科學由於一些貴重儀器與技術的進步，才得以蓬勃發展，其中最令人興奮的莫過於與生物相關技術的進展；您若對這些報導有興趣也想加入生物科技之產業化，就非得從基礎的生物學開始。	Syllabus	Biology, through high school to college, is traditionally classified as two majow categories. The first part is through the observations of our eyes to recognize life of organisms such as plants and animals. Meanwhile, the second one focuses in detecting the activity of cell metabolism of life using a number of expensive, analytical instruments, including microscopy and electrophoresis. Besides, physical and chemical principals are utilized to illucidate the characteristics of life, where it also depends on the knowledge about Cell Biology, Biochemistry, Molecular Biology and Genetics. With the aid of the progress and developments in the scientifia areas mentioned above, the use and applications of life science in industry become important, and it astonishes us. Why do not we start from the understanding of life (i.e., Biology) if Biotechnology and its industrialization interest you ?

尊重智慧財產權，請勿非法影印。