朝陽科技大學 094學年度第1學期教學大綱
General Biology（Ⅰ）普通生物學(一)

當期課號	1606	Course Number	1606
授課教師	賴龍山	Instructor	LAI,LONG SHAN
中文課名	普通生物學(一)	Course Name	General Biology（Ⅰ）
開課單位	應用化學系(四日)一A	Department	
修習別	必修	Required/Elective	Required
學分數	2	Credits	2
課程目標	正統的生物學教育包括國小、國中、高中以及大學之教學，主史涵蓋兩大部份：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技術的進展(此技術整合與生物有關的各種知識)；您若對這些報導有興趣，就非得從基礎的生物學開始。	Objectives	Biology is generally devided as two parts :traditional and analytical biology in the education of elementary schools to universities. The former part covers the principles of animals and plants through our observation and recognization, whereas the latter one describes the operational logics of life science through the development of microscopy, electrophoresis…etc. By the aid of cell biology, biochemistry and genetics the analysis of cell metabolism becomes possible and feasible. Meanwhile, the development in biotechnology, the practical application that integrates the knowledge of biology, astonishes us most. If you are interested in this field, then why not prepare yourself from the knowledgy of General Biology?
教材	1.Essential Biology by Campbell, Reece and Simon (滄海書局) 2.自編講義 3.上一屆考古試題(讓同學瞭解出題方式)	Teaching Materials	
成績評量方式	四次考試(含期中考與期末考,每次各占20%) 專題報告也占20% 課堂參與(以10%爲限)亦列入學期成績評量 特別說明:期末結算成績時,不作分數調整.	Grading	20% will be given for each of totally four examinations; meanwhile, special report also deserve 20% of the course evaluation. Moreover, an additional bonus (10% in maximum) will be provided based on the class attendance and, mostly important, course discussion.
教師網頁			
教學內容	正統的生物學教育包括國小、國中、高中以及大學之教學，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技術的進展(此技術整合與生物有關的各種知識)；您若對這些報導有興趣，就非得從基礎的生物學開始。	Syllabus	Biology is generally devided as two parts: traditional and analytical biology in the education of elementary schools to universities. The former part covers the principles of animals and plants through our observation and recognization, whereas the latter one describes the operational logics of life science through the development of microscopy, electrophoresis...etc. By the aid of cell biology, biochemistry and genetics the analysis of cell metabolism becomes possible and feasible. Meanwhile, the development in biotechnology, the practical application that integrates the knowledge of biology, astonishes us most. If you are interested in this field, then why not prepare yourself from the knowledge of General Biology?

尊重智慧財產權，請勿非法影印。