朝陽科技大學 099學年度第2學期教學大綱
General Biology（Ⅱ ）普通生物學(二)

當期課號	1605	**Course Number**	1605
授課教師	劉炳嵐	**Instructor**	LIU,BING LAN
中文課名	普通生物學(二)	**Course Name**	General Biology (Ⅱ)
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。 基本上，本學期上課內容是銜接上學期普通生物學(一)的教學內容，其主旨是儘可能地提供給同學生物科技的基本知識與全貌。	**Objectives**	Biology is generally devided as 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? Overall, we will continue to introduce the basically important idea of Analytical Biology in this semester. In this way, we aim to give an overall view to biotechnology.
教材	Essentials of The Living World (3rd Ed.), by Geroge Johnson (歐亞書局代理)	**Teaching Materials**	Essentials of The Living World (3rd Ed.), by Geroge Johnson (Euroasia Book Co.)
成績評量方式	1. 隨堂考試 80% 2. 作業 10% 3. 課堂表現（含出席）10% 4. 額外加分	**Grading**	80% Chapter exams (in/off class) 10% Assignments 10% Lecture performance Bonus for questions/quizzes
教師網頁			
教學內容	1: 微生物的演化 2: 植物的演化 3: 動物的的演化 4: 生態系統 5: 循環作用 6: 動物體的自我防禦 7: 複製與發展8: 植物的型態與功能 9: 植物的複製與生長	**Syllabus**	1: Evolution of Microbial Life 2: Evolution of Plants 3: Evolution of Animals 4: Ecosystems 5: Circulation 6: How the Aminal Body Defends Itself 7: Reproduction and Development 8: Plant Form and Function 9: Plant Reproduction and Growth

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