朝陽科技大學 097學年度第1學期教學大綱
Chemistry 化學

當期課號	1604	Course Number	1604
授課教師	王文裕	Instructor	WANG,WEN YU
中文課名	化學	Course Name	Chemistry
開課單位	營建工程系(四日)一A	Department	
修習別	必修	Required/Elective	Required
學分數	2	Credits	2
課程目標	藉由化學課程，希望提供學生化學基本觀念和原理的基礎知識，並讓他們了解化學對我們生活的影響。本課程三個主要目的：第一、介紹化學基本觀念和原理。第二、培養學生解決問題和批判思考的技巧能力。第三、增進學生瞭解化學在當代所扮演的重要角色和使他們完成本課程後，俱備有用的分析能力。	Objectives	By way of Chemistry, we wish to provide a foundation in chemical concepts and principles to students and let them understand the influence of chemistry around our lives.There are three major goals of this course: first, to introduce the basic concepts of chemistry. Secondly, to develop students" problem-solving and critical thinking skills. Thirdly, to increase students" awareness of the significant role chemistry plays in contemporary life and to equip them all with some analytical skills that they will find useful even after they"ve completed the course.
教材	化學，姜仁章、王啓川譯，第七版，高立圖書公司 (原著：Basic Concepts of Chemistry，Leo J. Malone.)	Teaching Materials	Basic Concepts of Chemistry, Leo J. Malone., 7th ed., John Willy & Sons
成績評量方式	1. 期中考 35% 2. 討論表現(出席率、小考) 30% 3. 期末考 35%	Grading	1.mid-term exam 35% 2. quiz 30% 3.final exam 35%
教師網頁	_		
教學內容	1.普通化學的基本概念(分子組成，化學方程式) 2.週期表及原子論(元素及化合物，軌域理論，化學鍵) 3.化學反應(沉澱，中和，計量化學) 4.環境應用化學(水溶液，酸鹼，氧化還原，反應速率與化學平衡)	Syllabus	1.Basic concepts of general chemistry(compound and chemical equation) 2.Periodic table and atomic theory (element, orbital theory, and chemical bond) 3.Chemical reaction (precipitation, neutralization, and stoichaometry) 4.Environmental chemistry application(aquatic solution, acid and base, redox reaction, chemical kinetics and equilibrium)

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