朝陽科技大學 093學年度第1學期教學大綱
General Chemistry（Ⅰ）普通化學(一)

當期課號	1542	Course Number	1542
授課教師	徐基東	Instructor	HSU,CHI TUNG
中文課名	普通化學(一)	Course Name	General Chemistry (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	3	Credits	3
課程目標	介紹化學之基本知識與觀念，使學生開始接觸較基礎的有機化學、分析化學、物理化學、生物化學，以便在二年級以後更有效率地學習各門化學之專業科目。	Objectives	This course deals with the prelimianry introduction of first-year college chemistry. It includes the basic materials of organic chemistry, inorganic chemistry, analytic chemistry and physical chemistry.The details of the contents involving chemical bonding, elements, and chemical compounds, solution chemistry, various types of chemical reaction consisting of acid and base, oxidation and reduction, precipitation, etc., thermochemistry, chemical equilibrium, kinetics, thermodynamics, coordination compounds, organic chemistry and polymers. The format of this course includes lecture, problem setes, examination and recitation.
教材	General Chemistry, The Essential Concepts, Third Ed. by Raymond Chang; publisher: McGraw Hill	Teaching Materials	
成績評量方式	每教完一章,小考一次,一共考11次, 總成績爲100分	Grading	average score in 11-time examinations, total 100 points
教師網頁			
教學內容	第一章 緒論 第二章 原子,分子及離子 第三章 化學計量法 第四章 水溶液反應 第五章 氣體 第六章 化學反應中的能量關係 第七章 原子的電子結構 第八章 週期表 第九章 化學鍵I 第十章 化學鍵ii 第十一章 有機化學序論	Syllabus	Chapter1: Introduction Chapter2: Atoms, Molecules, and Ions Chapter3: Stoichiometry Chapter4: Reactions in Aqueous Solutions Chapter5: Gases Chapter6: Energy Relationships in Chemical Reactions Chapter7: The Electronic Structure of Atoms Chapter8: The Periodic Table Chapter9: Chemical Bonding I, The covalent bond Chapter10: Chemical BondingII, molecular geometry and hybridization of atomic orbitals Chapter11: Introduction to organic chemistry

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