朝陽科技大學 098學年度第1學期教學大綱
General Chemistry Laboratory (I) 普通化學實驗(一)

當期課號	1811	Course Number	1811
授課教師	曾瑞昌	Instructor	TSENG,JUI CHANG
中文課名	普通化學實驗(一)	Course Name	General Chemistry Laboratory (I)
開課單位	應用化學系(四日)一B	Department	
修習別	必修	Required/Elective	Required
學分數	1	Credits	1
課程目標	理論加上實驗永遠是最完美的組合，幫助學生養成對已知化學理論加以求證的習慣，並學習一般化學藥品的處理方法。完成這些訓練不單單對化學反應或化學藥品有更深一層的了解，同時在遇到意外時，有能力去準備必要的措施。	Objectives	Introductory experimental course deals with a great deal of knowledge and innovation. In addition, this course illustrates many principles of general chemistry. Students should learn how to apply the chemical science in our daily lives. This course contains 11 experiments:1. Chemical equilibrium 2. The titration of acid and base 3. Reversible oxidation-Reduction color changes 4. The study of oxidation of iron 5. Introduction to Chromatography; Paper Chromatography 6. Analysis of cations 7. Analysis of anions 8. How to make a good detergent? 9. Shampoo (part I) 10. Shampoo (part II) 11.Hand lotion.
教材	1.圖解化學實驗,郭偉明,全威圖書公司 2.補充講義	Teaching Materials	Textbook and Lecture Notes
成績評量方式	實驗態度40%, 預報15%, 平時考15%, 結報15%, 期末考15%	Grading	Attitude 40%, pre-Lab. report 15%, Quiz 15%, Lab. report 15%, Final Exam. 15%
教師網頁			
教學內容	透過實驗的過程來學習並驗證化學基礎理論,還有了解一些生活現象的發生	Syllabus	This course illustrates many principles of general chemistry. Students should learn how to apply the chemical science in our daily lives. This course offers 12 laboratory sections, along with weeks for organizations and examination:1. Check in, Las. safety 2. The use of Bunsen Burner 3. Measurement of density of solids & liquids 4. Law of conservation of Mass 5. Law of fixed composition 6. Property and preparation of Oxygen 7. Determination of Molecular Weight by Measuring Vapor Density *8. Mid-Term 9. Hardness of Water 10. Vitamin-C content of fruits 11. synthesis of Artificial Flavor 12. Saponification 13. Cyclic Reactions 14. Checkout *15. Final Exam

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