朝陽科技大學 093學年度第2學期教學大綱
Analytical Chemistry（Ⅰ）分析化學(一)

當期課號	1471	Course Number	1471
授課教師	陳政男	Instructor	CHEN,CHANG NAN
中文課名	分析化學(一)	Course Name	Analytical 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	讓學生了解、熟悉基本的分析化學概念與知能。內容包括：分析數據之處理與應用、傳統分析中之重量分析、滴定分析及電化學分析，使學生對分析化學之領域及應用有初步基本的了解。	Objectives	The purposes of this course deals with the fundamental concepts and knowledge of analytical chemistry. The contents of this course include traditionally gravimetric analysis, volumetric analysis and electrochemistry. Students should have the overall pictures of analytical chemistry and learn applications of fundamental analytical chemistry after this course.
教材	Fundamentals of analytical chemistry, Skoog West Holler, 8th edition	Teaching Materials	
成績評量方式	小考 25% 期中考 25% 期末考 30% 出席 15% 學習態度 10%	Grading	Quiz 25%, MidExam 20%, Final 30%, attendance 15% learning attitude 10%.
教師網頁			
教學內容	1.分析化學的基本原理 2.統計方法的應用 3.介紹現代分析化學的技術及其應用 教學進度: 第1-3 週: Introduction: Chapter 1 The nature of analytical chemistry Chapter 4 Calculations in analytical chemistry 第4-6 週: Chapter 5 Errors in chemical analysis Chapter 6 Random errors in analysis 1st midterm exam 第7-9 週: Chapter 7 Statistics data treatment and evaluation Chapter 8 calibration Chapter 9 Aqueous solutions and chemical equilibria 第10-12 週: Chapter 9 Aqueous solutions and chemical equilibria Chapter 10 Effect of electrolytes on chemical equilibria 2nd midterm exam 第13-15 週: Chapter 12 gravimetric methods of analysis 第16-18 週: Chapter 13 Precipitation titrimetry final exam	Syllabus	1. Fundamentals of Analytical Chemistry, 2. Applications of Statistical Methods, 3. Introduction of Modern Analytical Techniques Course Schedule: Week 1-3: Introduction: Chapter 1 The nature of analytical chemistry Chapter 4 Calculations in analytical chemistry Week 4-6: Chapter 5 Errors in chemical analysis Chapter 6 Random errors in analysis 1st midterm exam Week 7-9: Chapter 7 Statistics data treatment and evaluation Chapter 8 calibration Chapter 9 Aqueous solutions and chemical equilibria Week 10-12: Chapter 9 Aqueous solutions and chemical equilibria Chapter 10 Effect of electrolytes on chemical equilibria 2nd midterm exam Week 13-15: Chapter 12 gravimetric methods of analysis Week 16-18: Chapter 13 Precipitation titrimetry final exam

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