朝陽科技大學 092學年度第1學期教學大綱
Experimental Analytical Chemistry 分析化學實習

當期課號	1680	Course Number	1680
授課教師	許世興	Instructor	SHEU,CE SHING
中文課名	分析化學實習	Course Name	Experimental Analytical Chemistry
開課單位	應用化學系(四日)二B	Department	
修習別	必修	Required/Elective	Required
學分數	1	Credits	1
課程目標	本課程在培養學生對定量分析基本操作的了解及技巧。	Objectives	Students will learn the techniques of quantitative analysis from this experiments.
教材	以學生親自執行實驗爲主	Teaching Materials	Students principally do experiment themselves.
成績評量方式	報告佔80%, 考試佔20%	Grading	80% from report & 20% from final exam.
教師網頁	_		
教學內容	實驗說明，實驗室安全簡介，清點實驗器材，天平之操作，分析器皿容積的校正，重量分析─可溶性硫酸鹽的定量分析，食醋中醋酸的測定，鹼灰中總鹼度的測定，雙重指示劑滴定法，以Mohr法測定氯含量，期中考，以Fajan法測定氯含量，李必希滴定法，EDTA的錯合滴定分析法，過錳酸鉀滴定法，利用碘定量法測定銅礦中銅的含量，用重鉻酸鉀滴定鐵礦中鐵的含量，清點實驗器材，期末考試。	Syllabus	Experimental explaination, Introducing safety of laboratory, Check in, Operation of balance, Calibration of analytical container, Gravimetric analysis-Quantitative analysis of dissolvable sulfate, Determination of acetic acid in vinegar, Determination of total soda in soda ash, Titrimetric method with double indicator, Determination of content of chlorine by Mohr method, Median exam, Determination of content of chlorine by Fajan method, Liebig's titrametric method, Complex titration of EDTA, Titration of potassium permanganate, Determination of content of copper in copper mine by iodic quantitative method, Titration of content of iron in iron mine by potassium dichromate, Check out, Final exam.

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