朝陽科技大學 093學年度第1學期教學大綱
Physical Chemistry 物理化學(一)

當期課號	1577	Course Number	1577
授課教師	錢偉鈞	Instructor	CHIEN,WEI JYUN
中文課名	物理化學(一)	Course Name	Physical Chemistry
開課單位	應用化學系(四日)三A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	本課程爲應用化學系學生必修之課程。課程主旨在於以物理學之理論與方法探討化學現象與反應之原理。課程內容著重於以熱力學三大定律，平衡現象,反應動力論及量子化學爲主體之基礎定律理論與應用。	Objectives	The main purpose of this two-semester course is to introduce how to apply physical theories and methods to investigate chemical systems and processes. The following topics will be included in this course: thermodynamics, phenomenon of equilibrium, kinetics and basic structure of atom and molecule.
教材	"Physical Chemistry" (Fourth ed.) by K. J. Laidler, J. H. Meiser and B. C. Sanctuary	Teaching Materials	
成績評量方式	共舉行三次成績評量:兩次期中考各佔30%,共計60%.期末考佔40%.總分合計爲100分	Grading	Three examinations : two midterms 60%, final exam 40%.
教師網頁	http://www.cyut.edu.tw/~wjchien		
教學內容	本學期之物理化學課程內容包含量子化學及化學熱力學; 1. 量子力學與原子分子結構; 2. 氣體動力學; 3. 熱力學三大定律 4. 化學平衡	Syllabus	Three major tpics are included: 1. quantum chemistry and the structure of atom and molecule; 2. Kinetic Theory of Gases 3. The fist, second the third laws of thermodymamics. 4. Chemical Equilibrium

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