朝陽科技大學 099學年度第2學期教學大綱
Physical Chemistry 物理化學(一)

當期課號	1627	Course Number	1627
授課教師	謝定國	Instructor	HSIEH,DEAN KUO
中文課名	物理化學(一)	Course Name	Physical 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	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	"物理化學" (第九版, 2009年) 作者: Peter Atkins, Julio De Paula, 出版:Oxford University Press.	Teaching Materials	"Physical Chemistry" (9th ed.) by Peter Atkins, Julio De Paula, Oxford University Press. 2009
成績評量方式	3次小考，1次期中考，1次期末考。平均成績60分以下不及格。	Grading	Mid Exam (20%), Final Exam (20%), and 3 Quizes (60%).
教師網頁			
教學內容	本學期之物理化學課程內容以化學熱力學爲主; 1. The properties of gases; 2. The 1st Law; 3. The 2nd Law; 4. Physical transformations of pure substances; 5. Simple mixtures 6. Chemical Equilibrium	Syllabus	The major topics include: 1. The properties of gases; 2. The 1st Law; 3. The 2nd Law; 4. Physical transformations of pure substances; 5. Simple mixtures 6. Chemical Equilibrium

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