朝陽科技大學 099學年度第1學期教學大綱
Physical Chemistry (II) 物理化學(二)

當期課號	1667	Course Number	1667
授課教師	謝定國	Instructor	HSIEH,DEAN KUO
中文課名	物理化學(二)	Course Name	Physical Chemistry (II)
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	P. Atkins and J. de Paula (2006) "Physical Chemistry", 8e.	Teaching Materials	P. Atkins and J. de Paula (2006) "Physical Chemistry", 8e.
成績評量方式	4次小考(60%)，1次期中考(20%)，1次期末考(20%)。	Grading	Mid Exam (20%), Final Exam (20%), and 4 Quizzes(60%).
教師網頁	_		
教學內容	1. Molecules in motion; 2. The rates of chemical reactions; 3. The kinetics of complex reactions; 4. Molecular reaction dynamics; 5. Processes at solid surfaces; 6. Introduction of macromolecules and aggregates.	Syllabus	1. Molecules in motion; 2. The rates of chemical reactions; 3. The kinetics of complex reactions; 4. Molecular reaction dynamics; 5. Processes at solid surfaces; 6. Introduction of macromolecules and aggregates.

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