朝陽科技大學 093學年度第1學期教學大綱
Inorganic Chemistry (I) 無機化學(一)

當期課號	1578	Course Number	1578
授課教師	楊聰仁	Instructor	YANG,TSONG JEN
中文課名	無機化學(一)	Course Name	Inorganic Chemistry (I)
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	幫助同學更深入了解物質的組成，電子組態、軌域分佈及光譜的吸收。課程部份主要包括：錯化合物的電子光譜、ｄ軌域錯合物的反應機構，以及有機金屬化合物的探討。	Objectives	This is the first part of a series of inorganic chemistry courses. It is related to structural, spectroscopic, and chemical properties of atoms, molecules. The course includes bonding models of atoms and molecules, molecular shapes and symmetry, acids and bases, and d-metal complexes.
教材	Textbook:Inorganic Chemistry,by Gary L.Miessler,2nd.ed., Prentice-Hall,Inc.(1999) Reference book:Concepts and Models of Inorganic Chemistry, by Bodie F. Douglas,Darl H. McDaniel, and John J. Alexander,3rd.ed.,John Wiley & Sons,Inc.(1994).	Teaching Materials	
成績評量方式	平時成績 40%, 期中考 30%, 期末考 30%	Grading	Problem sets and quizes 40%, Mid-term Exam. 30%, Final Exam. 30%.
教師網頁			
教學內容	介紹無機化學鍵結理論,酸鹼理論,固態晶體,配位化學,內容涵蓋原子構造,原子光譜,價鍵理論,分子軌道理論,對稱與群論,固態晶體構造,晶場理論與配位化合物。	Syllabus	Chemical bonding theory, acid-base theory, solid-state chemistry,symmetry and group theory ,coordination chemistry will be introduced.The course contents including atomic structure,atomic spectra, valence bond theory, molecular orbital theory, symmetry and group theory; crystal structure,acid-base definitions, crystal-field theory, coordination compounds.

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