

朝陽科技大學 092學年度第2學期教學大綱
Inorganic Chemistry 無機化學

當期課號	6217	Course Number	6217
授課教師	楊聰仁	Instructor	YANG,TSONG JEN
中文課名	無機化學	Course Name	Inorganic Chemistry
開課單位	應用化學系(二進)四A	Department	
修習別	必修	Required/Elective	Required
學分數	3	Credits	3
課程目標	1.原子構造. 2.化學鍵理論. 3.對稱與群論. 4.酸鹼理論. 5.晶體構造.	Objectives	1.Atomic Structure. 2.Simple Bonding Theory. 3.Symmetry and Group Theory. 4.Acid-Base Theory. 5.Crystalline Structure.
教材	課堂講授,討論,範例與習題說明。	Teaching Materials	Teaching,discussion,explanation of examples and excercises.
成績評量方式	平時成績 40%, 期中考 30%, 期末考 30%	Grading	Problem sets and quizzes 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,有機金屬化學,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,配位基場論,配位化合物構造與同分異構物,配位化合物電子光譜,配位化學反應與反應機構,有機金屬化合物命名與有機配位基,有機金屬化合物化學反應。	Syllabus	Chemical bonding theory, acid-base theory, solid-state chemistry, coordination chemistry, organometallic chemistry will be introduced. The course contents including atomic structure,atomic spectra, valence bond theory, molecular orbital theory, symmetry and group theory; crystal structure, ligand field theory, coordination chemistry:structures and isomers, electronic spectra, reactions and mechanisms; organometallic chemistry:nomenclature and organic ligand,organometallic reactions and catalysis.

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