朝陽科技大學 096學年度第1學期教學大綱
Advanced Organic Chemistry 高等有機化學

當期課號	7178	Course Number	7178
授課教師	楊德芳	Instructor	YANG,TE FANG
中文課名	高等有機化學	Course Name	Advanced Organic Chemistry
開課單位	應用化學系碩士班一A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程之目的在提供學生對有機反應在結構及反應機構上較深入的了解。課程的內容著重於鍵結理論、立體化學、反應機構與數種代表反應之機構研究。	Objectives	The purpose of this course is to provide the students the knowledge in advanced organic chemistry. The topics will include 1) basic physical organic chemistry; 2) stereochemistry; 3) basicity and acidity and 4) the basic organic mechnism related to the organic reactions.
教材	"March's Advanced Organic Chemistry", 5th edition; by M. B. Smith, and J. March	Teaching Materials	
成績評量方式	四次考試, 每次各佔 25 %.	Grading	Four exams; each exams contributes 25 % of the final grade.
教師網頁			
教學內容	1. 分子軌域理論 2. SN1反應 3. 親電子加成 4. Elimination 反應 5. Aromatic 取代反應 6. 酸鹼催化 7. 親核加成反應 8. 化學鍵 9. Carbonium 離子 10. SN2 反應	Syllabus	1. Electron pair bond 2. Molecular orbitals 3. SN2 and limiting reactions 4. SN1 pathways 5. Carbonium ions 6. Electrophilic additions 7. Elimination reactions 8. Aromatic substitution 9. Acid-base catalysis 10. Nucleophilic additions

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