朝陽科技大學 097學年度第2學期教學大綱
Organic Reaction Mechanisms 有機反應機構

當期課號	1774	Course Number	1774
授課教師	周德璋	Instructor	CHOU,TEH CHANG
中文課名	有機反應機構	Course Name	Organic Reaction Mechanisms
開課單位	應用化學系(四日)三A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程目的在使學生熟悉各種有機反應之進行機制與原理。	Objectives	The purpose of this course is to provide the student the basic knowledge of the organic reaction mechanisms, which includes: 1)nucleophilic reactions; 2) elimination reactions; 3) polar rearrangements; 4) cyclization reactions; 5) orbital symmetry.
教材	The Art of Writing reasonal organic reaction mechanisms by Robert B. Grossman; Springer	Teaching Materials	The Art of Writing reasonal organic reaction mechanisms by Robert B. Grossman; Springer
成績評量方式	3次 120分鐘考試，每次佔30%	Grading	3 2-hour examinations, 30% each
教師網頁			
教學內容	教學內容 主要內容：一、學習基本的理論及定義 二、學習不同化學反應及應用等。讓學生學習基本有機化學的反應機構，由淺而深，包括理論及應用。學生具有了這些知識之後才能修習其他進階的課程及研究	Syllabus	To discuss the basic terminology, types of chemical transformations and their reaction mechanisms. These include a] polar reactions under basic and acidic conditions, pericyclic reactions, and free radical reactions. The ultimate goal is to teach student how to write a reasonalbe reaction mechanism for any chemical transformation.

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