朝陽科技大學 092學年度第1學期教學大綱
Heterocyclic Chemistry 雜環化學

當期課號	1698	Course Number	1698
授課教師	楊德芳	Instructor	YANG,TE FANG
中文課名	雜環化學	Course Name	Heterocyclic Chemistry
開課單位	應用化學系(四日)四A	Department	
修習別	選修	Required/Elective	Elective
學分數	3	Credits	3
課程目標	本課程的目標是讓學生對雜環化合物的結構，反應及合成有進一步的認識。內容包含五元環、六元環及四元環等含有氧、氮、硫原子化合物的介紹及討論。	Objectives	Various heterocyclic systems, including six-membered or five-membered ring compounds with one, two or more heteroatoms, will be discussed. Three-, four- and seven-membered ring compounds will be introduced. The contents of lectures include preparation and properties of heterocyclic compounds. Especially, the general features of those properties will be identified and emphasized.
教材	(1) 老師講解, (2) 師生討論	Teaching Materials	(1) Lectures given by the teachers, (2) Discussions
成績評量方式	四次考試: 每次佔 25%	Grading	Four exams: 25% for each
教師網頁	_		
教學內容	(1) 環狀化合物的合成原理, (2) 六元環含單一雜原子環狀化合物的合成, (3) 五元環含單一雜原子環狀化合物的合成, (4) 六元環含雙雜原子環狀化合物的合成, (5) 五元環含雙雜原子環狀化合物的合成, (6) 各種含多重雜原子環狀化合物的合成	Syllabus	(1) Ring synthesis, (2) Six-membered ring compounds with one heteroatom, (3) Five-membered ring compounds with one heteroatom, (4) Six-membered ring compounds with two or more heteroatom, (5) Five-membered ring compounds with two or more heteroatom , (6) Three and four-membered ring compounds,

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