朝陽科技大學 097學年度第1學期教學大綱
Organic Chemistry(I) 有機化學(一)

當期課號	1794	Course Number	1794
授課教師	徐基東	Instructor	HSU,CHI TUNG
中文課名	有機化學(一)	Course Name	Organic Chemistry(I)
開課單位	應用化學系(四日)二A	Department	
修習別	必修	Required/Elective	Required
學分數	4	Credits	4
課程目標	本課程目的在建立學生基礎有機化學的概念，對各種不同的官能基的製備、性質、結構的介紹。著重於合成方法的探討，藉以了解各式化學反應，立體化學觀念的建立亦是本課程之另一重點。	Objectives	This course is intended for students to be familiar with organic synthesis. Basic principles of organic chemistry are taught in this one-year course. The properties of major functional groups are introduced systematically along with reaction mechanisms at appropriate places. The discussions of reaction types and chemical transformations are included. The basic concepts of stereochemistry are discussed in considerable details. The terms and relationships and properties of stereoisomers are emphasized. Another purpose of this course is to bridge the gap between organic chemistry and biochemistry in teaching the basic mechanistic principles of molecular interactions.
教材	International Student Edition of Organic Chemistry, 6th Ed.by John McMurry	Teaching Materials	International Student Edition of Organic Chemistry, 6th Ed.by John McMurry
成績評量方式	平時考試: 60% 期中考試: 20% 期末考試: 20%	Grading	quizz: 60% Midterm Exam: 20% Final Exam: 20%
教師網頁			
教學內容	1. 分子結構與化學鍵 2. 極性共價鍵;酸與鹼 3. 烷類和環烷類有機物 4. 烷和環烷之立體化學 5. 有機反應綜述 6. 烯類化合物之結構和反應性 7. 烯類化合物之反應和合成 8. 簡介炔類之有機合成 9. 立體化學簡介 10. 有機鹵化物 11. 鹵化烷類之反應; 親核取代和移去反應	Syllabus	1. Structure and Bonding 2. Polar Covalent Bonds: Acids and Bases 3. Organic compounds: Alkanes and Cycloalkanes 4. Stereochemistry of alkanes and cycloalkanes 5. Overview of organic reactions 6. alkenes: structure and reactivity 7. alkenes: reactions and synthesis 8. alkynes: an introduction to organic synthesis 9. stereochemistry 10. alkyl halides 11. reactions of alkyl halides: nucleophilic substitutions and eliminations

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