朝陽科技大學 097學年度第2學期教學大綱
Organic Chemistry(II) 有機化學(二)

當期課號	1743	Course Number	1743
授課教師	徐基東	Instructor	HSU,CHI TUNG
中文課名	有機化學(二)	Course Name	Organic Chemistry(II)
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	本一學年課程之目的在對大二之學生介紹有化學之基本原理，對有機分子結構與反應進行系統介紹，進而介紹合成反應以整合所學知識。	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. 核磁共振,紅外線及紫外線之分析原理 2. 苯環及芳香族之性質 3. 苯環的化學:親電子取代反應 4. 醇與酚 5. 醚類,環氧化物和硫醇類及硫化物 6. 醛與酮 7. 有機酸和腈 8. 有機酸及親核取代反應 9. 羰基的阿爾法取代反應 10. 羰基的縮合反應 11. 胺的有機反應	Syllabus	1. Fendamental of NMR, IR, and UV 2. Benzene and aromaticity 3. Benzene chemistry: Electrophilic aromatic substitution 4. Alcohols and Phenols 5. Ethers and Epoxides; Thiols and Sulfides 6. Aldehydes and Ketones 7.Carboxylic acids and Nitriles 8. Carboxylic acid derivatives and their reactions 9. Carbonyl Alpha-substitution Reactions 10. Carbonyl condensation reactions 11. Amines and their reactions

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