

國立中正大學化學暨生物化學系教學大綱

109學年度第2學期

編 號：2602212

授課老師：朱延和

科目名稱：有機化學(二)

先修課程：有機化學(一)

英文譯名：Organic Chemistry (II)

學 分 數：3

修 別：必 修

教學目標：

介紹有機化學的基本知識，使學生認識：有機分子的結構學及鑑定方法、有機化學反應、官能基與反應性之關係、化學轉化的機制、以及有機分子的合成。

授課大綱：

1. 有機分子的鍵結與結構
2. 各類有機化合物的分類、命名、物理性質、及特徵反應
3. 主導分子特性和化學反應的理論
4. 基本有機光譜學
5. 有機化學反應機構
6. 有機合成
7. 生物有機化學

參考書籍：

1. John McMurry, Organic Chemistry, 9th Ed., Brooks/Cole Publishing Company, California, USA, 2016.
2. T. W. Graham Solomons, Organic Chemistry, 10th Ed., 2011.
3. P. Y. Bruice, Organic Chemistry, 3rd Ed., Prentice Hall, New Jersey, 2001.

請尊重智慧財產權，不得非法影印教師指定之教科書籍

Organic Chemistry-II

(Course Number: 2602212)

Spring Semester 2021

For Chem Eng Majors, National Chung Cheng University

Lecture Times: M & W, 10:15-11:30AM (地震館215演講廳)

Instructor: Professor Yen-Ho Chu (朱延和)
Office: 528 Chemistry and Biochemistry Building (化生館528室)
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Office Hours: W, 2:00-4:00PM and other times by appointment.

Textbook: "Organic Chemistry" by J. McMurry (9th Edition, 2016) and the study guide.

Prerequisite: *General chemistry* is the prerequisite for this course. A firm understanding of the chemistry discussed in that course (such as acid-base chemistry, thermodynamics, bonding, the periodic table, and chemical equilibrium) is expected and needed to understand the topics discussed in organic chemistry.

Homework Problems: *Problem solving is essential to learning organic chemistry!* You should work *all* the homework problems appeared in the text and at the end of each chapter. The Study Guide provides detailed answers to the problems. These problems will be neither collected nor graded, they are for your benefit.

Grading System: The following proposed grading system will be used for this course. The final grade will be determined by performances on the midterm exams, the final exam (the final grade may not be recalculated and adjusted):

Your three midterm exams [30 points each]	90 points
Your only one final exam [30 points]	30 points

Exam dates are given below (**Note that no make-up exams will be given**):

<u>Midterm Exams</u>	Wednesday, April 7
	Wednesday, May 5
	Wednesday, June 9

<u>Final Exam</u>	Monday, June 21
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Please note that your presence in the class is critical to the successful learning of organic chemistry. Unless uncontrollable reasons, a penalty of **1 point** for each class absence will be deducted from your final grade for this course.

All students with disabilities who need accommodations should see me privately during my office hours to make arrangements.