

## 有機化學一 (Organic Chemistry I, CHEM221001)

Lecturer: Prof. 林俊成 (Chun-Chung Lin, Chem Building I, room B07)

Textbook: Organic Chemistry eighth Edition by P.Y. Bruice  
(偉明代理, 02-23638586)

<u>Week</u>	<u>Chapter Content</u>
1 <sup>st</sup> week	Ch1: Electronic Structure and bonding
2 <sup>nd</sup> week	Ch1: Electronic Structure and bonding Ch 2: An Introduction to Organic Compounds
3 <sup>rd</sup> week	Ch2: An Introduction to Organic Compounds
4 <sup>th</sup> week	Ch 3: Alkenes
5 <sup>th</sup> week	Ch3: Alkenes
6 <sup>th</sup> week	Ch4: The Reactions of Alkenes <b>The First Exam</b>
7 <sup>th</sup> week	Ch4: The Reactions of Alkenes
8 <sup>th</sup> week	Ch5: Stereochemistry
9 <sup>th</sup> week	Ch5: Stereochemistry Ch6: The Reactions of Alkynes
10 <sup>th</sup> week	Ch6: The Reactions of Alkynes
11 <sup>th</sup> week	Ch7: Delocalized Electrons
12 <sup>th</sup> week	Ch7: Delocalized Electrons <b>The Second Exam</b>
13 <sup>th</sup> week	Ch8: Substitution and Elimination Reactions
14 <sup>th</sup> week	Ch8: Substitution and Elimination Reactions
15 <sup>th</sup> week	Ch9: Elimination Reactions of Alkyl Halides
16 <sup>th</sup> week	Ch10: Functional Group Transformation
17 <sup>th</sup> week	Ch10: Functional Group Transformation
18 <sup>th</sup> week	<b>Final Exam</b>

每次考試滿分為110~120

The First Exam: 25%

The Second Exam: 35%

Final Exam: 35%

點名&小考: 10%

Office Hour: 每星期二晚上8:30到9:30 at <https://meet.google.com/occ-jdrd-vsib>

透過系統化的知識學習，學生可由基本的有機反應原理知識，慢慢深入到各類型的有機反應。有機化學一學習重點為有機化合物命名、立體化學及異構物定義、

烯基與炔基的各種反應、消去反應及取代反應。透過此內容的學習，學生可學得基本的有機反應知識。