

105 學年第 2 學期 高等有機化學(二) Advanced Organic Chemistry(II) 課程  
綱要

課程名稱：(中文) 高等有機化學(二)		開課單位	應化碩			
(英文) Advanced Organic Chemistry(II)		永久課號	IAC5648			
授課教師：柳日馨 孫仲銘 莊士卿						
學分數	3	必/選修	選修	開課年級	*	
先修科目或先備能力：						
Organic Chemistry I and II						
課程概述與目標：						
This course covers three topics:						
1. Organometallic Chemistry and Related Asymmetric Processes						
2. Multistep Synthesis Design						
3. C-C Bond Forming reactions of Compounds of B, Si, and Sn and Flow Chemistry						
Students learn advanced technology in synthetic organic chemistry for cultivating their potential in organic chemistry.						
教科書 (請註明書名、作者、出版社、出版年等資訊)		Textbooks:				
		1. Carey, F. A.; Sundberg, R. J. Advanced Organic Chemistry: Part A, 5th Ed.; 2007.				
		2. Carey, F. A.; Sundberg, R. J. Advanced Organic Chemistry: Part B, 5th Ed.; 2007.				
		The electronic version of the textbooks can be download for free via NCTU library website: <a href="http://webpac.lib.nctu.edu.tw/F?RN=830803197">http://webpac.lib.nctu.edu.tw/F?RN=830803197</a>				
課程大綱		分配時數				備註
單元主題	內容綱要	講授	示範	習作	其他	
教學要點概述：						
1. 學期作業、考試、評量						
3 exams, each counts 33.4%						
2. 教學方法及教學相關配合事項(如助教、網站或圖書及資料庫等)						
mixed blackboard and Powerpoint teaching						

	排定時間	地點	連絡方式
師生晤談	Mondays 2-4pm	Prof. Shih-Ching Chuang Office: SB531 E-mail: <a href="mailto:jscchuang@gmail.com">jscchuang@gmail.com</a>	Prof. Shih-Ching Chuang Office: SB531 E-mail: <a href="mailto:jscchuang@gmail.com">jscchuang@gmail.com</a>
		Prof. Chung-Ming Sun Office: SB505 E-mail: <a href="mailto:cmsun@mail.nctu.edu.tw">cmsun@mail.nctu.edu.tw</a>	Prof. Chung-Ming Sun Office: SB505 E-mail: <a href="mailto:cmsun@mail.nctu.edu.tw">cmsun@mail.nctu.edu.tw</a>
		Prof. Ilhyong Ryu Office: TBA E-mail: <a href="mailto:ryu@c.s.osakafu-u.ac.jp">ryu@c.s.osakafu-u.ac.jp</a>	Prof. Ilhyong Ryu Office: TBA E-mail: <a href="mailto:ryu@c.s.osakafu-u.ac.jp">ryu@c.s.osakafu-u.ac.jp</a>

每週進度表

週次	上課日期	課程進度、內容、主題
1	2/14,15	A. Organometallic Chemistry and Related Asymmetric Processes (5 Weeks) - Prof. Shih- Ching Chuang Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]
2	2/21,22	A. Organometallic Chemistry and Related Asymmetric Processes (5 Weeks) - Prof. Shih- Ching Chuang Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]
3	2/28,3/1	A. Organometallic Chemistry and Related Asymmetric Processes (5 Weeks) - Prof. Shih- Ching Chuang Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]  2/28 holidays
4	3/7, 3/8	A. Organometallic Chemistry and Related Asymmetric Processes (5 Weeks) - Prof. Shih- Ching Chuang Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]

5	3/14,3/15	A. Organometallic Chemistry and Related Asymmetric Processes (5 Weeks) – Prof. Shih- Ching Chuang Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]
6	3/21,3/22	A. Organometallic Chemistry and Related Asymmetric Processes (5 Weeks) – Prof. Shih- Ching Chuang Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]  1st exam on 3/21 (two hours)
7	3/28,3/29	B. Multistep Synthesis Design Design Elements of Multistep Synthesis [CS-B.ch 13] (5 Weeks) – Prof. Chung-Ming Sun
8	4/4,4/5	4/4,4/5 holidays
9	4/11,4/12	B. Multistep Synthesis Design Design Elements of Multistep Synthesis [CS-B.ch 13] (5 Weeks) – Prof. Chung-Ming Sun
10	4/18,4/19	B. Multistep Synthesis Design Design Elements of Multistep Synthesis [CS-B.ch 13] (5 Weeks) – Prof. Chung-Ming Sun
11	4/25,4/26	B. Multistep Synthesis Design Design Elements of Multistep Synthesis [CS-B.ch 13] (5 Weeks) – Prof. Chung-Ming Sun  2nd exam on 4/25 (two hours)
12	5/2,5/3	B. Multistep Synthesis Design Design Elements of Multistep Synthesis [CS-B.ch 13] (5 Weeks) – Prof. Chung-Ming Sun  2nd exam on 5/2 (two hours)
13	5/9,5/10	C. C-C Bond Forming reactions of Compounds of B, Si, and Sn (Chapter 9)

		of Book B) and Flow Chemistry (5 Weeks) - Prof. Ilhyong Ryu
14	5/16,5/17	C. C-C Bond Forming reactions of Compounds of B, Si, and Sn (Chapter 9 of Book B) and Flow Chemistry (5 Weeks) - Prof. Ilhyong Ryu
15	5/23,5/24	C. C-C Bond Forming reactions of Compounds of B, Si, and Sn (Chapter 9 of Book B) and Flow Chemistry (5 Weeks) - Prof. Ilhyong Ryu
16	5/30,5/31	C. C-C Bond Forming reactions of Compounds of B, Si, and Sn (Chapter 9 of Book B) and Flow Chemistry (5 Weeks) - Prof. Ilhyong Ryu  5/30 holiday
17	6/6,6/7	C. C-C Bond Forming reactions of Compounds of B, Si, and Sn (Chapter 9 of Book B) and Flow Chemistry (5 Weeks) - Prof. Ilhyong Ryu
18	6/13	C. C-C Bond Forming reactions of Compounds of B, Si, and Sn (Chapter 9 of Book B) and Flow Chemistry (6 Weeks) - Prof. Ilhyong Ryu  3rd exam on June 13th (two hours)

※ 請同學遵守智慧財產權觀念及勿使用不法影印教科書。

備註：

1. 其他欄包含參訪、專題演講等活動。
2. 請同學遵守智慧財產權觀念及勿使用不法影印教科書。

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