

107 學年度 第 2 學期 高等有機化學(二) Advanced Organic Chemistry(II) 課

程綱要

課程名稱：		開課單位：		應化碩	
(中文) 高等有機化學(二)		永久課號：		IAC5648	
(英文) Advanced Organic Chemistry(II)					
授課教師：					
莊士卿、柳日馨					
學分數：	3.00	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:			
		http://webpac.lib.nctu.edu.tw/F&#63;RN=830803197			
課程大綱			分配時數		
單元主題	內容綱要	講授	示範	習作	其他
備註					

教學要點概述：

1. 學期作業、考試、評量

2 exams, each counts 50%

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

師生晤談	排定時間	地點	聯絡方式
	Mondays 2:00-3:30pm	Prof. Shih-Ching Chuang Office: SB531 E-mail: jscchuang@gmail.com Prof. Ilhyong Ryu Office: TBA E-mail: ryu@c.s.osakafu-u.ac.jp	Prof. Shih-Ching Chuang Office: SB531 E-mail: jscchuang@gmail.com Prof. Ilhyong Ryu Office: TBA E-mail: ryu@c.s.osakafu-u.ac.jp

每週進度表

週次	上課日期	課程進度、內容、主題
1	2/19,20	Prof. Prof. Ilhyong Ryu C-C Bond Forming reactions of Compounds of B, Si, and Sn and Flow Chemistry [CS-B.ch 9]
2	2/26,27	Prof. Prof. Ilhyong Ryu C-C Bond Forming reactions of Compounds of B, Si, and Sn and Flow Chemistry [CS-B.ch 9]
3	3/5,6	Prof. Prof. Ilhyong Ryu C-C Bond Forming reactions of Compounds of B, Si, and Sn and Flow Chemistry [CS-B.ch 9]

4	3/12, 13	Prof. Prof. Ilhyong Ryu C-C Bond Forming reactions of Compounds of B, Si, and Sn and Flow Chemistry [CS-B.ch 9]
5	3/19,20	Prof. Prof. Ilhyong Ryu C-C Bond Forming reactions of Compounds of B, Si, and Sn and Flow Chemistry [CS-B.ch 9]
6	3/26,27	Prof. Prof. Ilhyong Ryu C-C Bond Forming reactions of Compounds of B, Si, and Sn and Flow Chemistry [CS-B.ch 9]
7	4/2,3	Prof. Prof. Ilhyong Ryu C-C Bond Forming reactions of Compounds of B, Si, and Sn and Flow Chemistry [CS-B.ch 9]
8	4/9,10	Prof. Prof. Ilhyong Ryu C-C Bond Forming reactions of Compounds of B, Si, and Sn and Flow Chemistry [CS-B.ch 9]
9	4/16,17	MIDTERM ON 4/16 2 hours Prof. Ilhyong Ryu
10	4/23,24	Organometallic Chemistry and Related Asymmetric Processes (8 Weeks) – Prof. Shih- Ching Chuang

		Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]
11	4/30,5/1	Organometallic Chemistry and Related Asymmetric Processes (8 Weeks) – Prof. Shih- Ching Chuang Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]
12	5/7,5/8	Organometallic Chemistry and Related Asymmetric Processes (8 Weeks) – Prof. Shih- Ching Chuang Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]
13	5/14,5/15	Organometallic Chemistry and Related Asymmetric Processes (8 Weeks) – Prof. Shih- Ching Chuang Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]u
14	5/21,5/22	Organometallic Chemistry and Related Asymmetric Processes (8 Weeks) – Prof. Shih- Ching Chuang Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]
15	5/28,5/29	Organometallic Chemistry and Related Asymmetric Processes (8 Weeks) – Prof. Shih- Ching Chuang Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]
16	6/4,5	Organometallic Chemistry and Related Asymmetric Processes (8 Weeks) – Prof. Shih- Ching Chuang Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]
17	6/11,12	Organometallic Chemistry and Related Asymmetric Processes (8 Weeks) – Prof. Shih- Ching Chuang Transition Metal-Catalyzed Reaction and Related Asymmetric Processes [CS-B.ch 8]
18	6/18,19	Final exam on 6/18 2 hours

備註：

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

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