



## 教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	有機化學(一)			學年/學期 Academic Year/Semester	113/1
課程名稱(英文) Course Name in English	Organic Chemistry (I)				
科目代碼 Course Code	CHEM21400	系級 Department & Year	學二	開課單位 Course-Offering Department	化學系
修別 Type	學程 Program	學分數/時間 Credit(s)/Hour(s)		2.0/2.0	
授課教師 Instructor	/陳國庭				
先修課程 Prerequisite					
課程描述 Course Description					
有系統的介紹有機分子的結構及官能基，並講解基礎相關的有機反應機制及概念。					
課程目標 Course Objectives					
透過有系統的介紹，各有機分子的形成及各基的特性及其化學反應，讓學生能充分了解有機化學與日常生活及健康的密切關係。					
系專業能力 Basic Learning Outcomes					課程目標與系專業能力相關性 Correlation between Course Objectives and Dept.'s Education Objectives
A	具備生命科學相關學科之基礎知識。Having the basic knowledge of life science.				●
B	具備邏輯分析與解決問題的能力。Having the capabilities of logical analysis and problem solving.				○
C	具備資料整合、數據分析與書面及口頭報告之能力。Having the capabilities of data integration and analysis, and the skills of written and poster presentation.				○
D	具備終生學習的能力。Having the capability of lifelong learning.				
圖示說明Illustration：● 高度相關 Highly correlated ○ 中度相關 Moderately correlated					
授課進度表 Teaching Schedule & Content					
週次Week	內容 Subject/Topics				備註Remarks
1	Introduction				
2	Review of General Chemistry & Molecular Representations				
3	Review of General Chemistry & Molecular Representations				
4	Acids & Bases				
5	國慶日				
6	Acids & Bases				
7	Alkanes and Cycloalkanes				
8	Alkanes and Cycloalkanes				

9	期中考試週 Midterm Exam	
10	Stereochemistry	
11	Stereochemistry	
12	Chemical Reactivity and Mechanisms	
13	Nucleophilic Substitution and Elimination	
14	Nucleophilic Substitution and Elimination	
15	Nucleophilic Substitution and Elimination	
16	Nucleophilic Substitution and Elimination	
17	期末考試週 Final Exam	
18	自主學習	

### 教學策略 Teaching Strategies

- ☒ 課堂講授 Lecture
 ☐ 分組討論 Group Discussion
 ☐ 參觀實習 Field Trip  
☐ 其他 Miscellaneous:

### 教學創新自評 Teaching Self-Evaluation

#### 創新教學(Innovative Teaching)

- ☐ 問題導向學習(PBL)
 ☐ 團體合作學習(TBL)
 ☐ 解決導向學習(SBL)  
☐ 翻轉教室 Flipped Classroom
 ☐ 磨課師 Moocs

#### 社會責任(Social Responsibility)

- ☐ 在地實踐 Community Practice
 ☐ 產學合作 Industry-Academia Cooperation

#### 跨域合作(Transdisciplinary Projects)

- ☐ 跨界教學 Transdisciplinary Teaching
 ☐ 跨院系教學 Inter-collegiate Teaching

- ☐ 業師合授 Courses Co-taught with Industry Practitioners

其它 other:

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學期成績計算及多元評量方式 Grading & Assessments									
配分項目 Items	配分比例 Percentage	多元評量方式 Assessments							
		測驗 會考	實作 觀察	口頭 發表	專題 研究	創作 展演	卷宗 評量	證照 檢定	其他
平時成績(含出席) General Performance (Attendance Record)	20%								
期中考成績 Midterm Exam	30%								
期末考成績 Final Exam	40%								
作業成績 Homework and/or Assignments									
其他 Miscellaneous (出席)	10%								
評量方式補充說明 Grading & Assessments Supplemental instructions									
教科書與參考書目(書名、作者、書局、代理商、說明) Textbook & Other References (Title, Author, Publisher, Agents, Remarks, etc.) Organic Chemistry, David R. Klein, Wiley(R), Global edition.									
課程教材網址(含線上教學資訊,教師個人網址請列位於本校內之網址) Teaching Aids & Teacher's Website(Including online teaching information. Personal website can be listed here.) 相關課程資訊,請見東華e學苑佈告欄。 <a href="http://www.elearn.ndhu.edu.tw/moodle/">http://www.elearn.ndhu.edu.tw/moodle/</a> 線上課程連結,將以學校e-mail寄發通知。									
其他補充說明 (Supplemental instructions)									