國立東華大學

教學計劃表 Syllabus

課程名稱(中文) Course Name in Chinese	有機化學(二)			學年/學期 Academic Year/Semester	112/2
課程名稱(英文) Course Name in English	Organic Chemistry(Ⅱ)				
科目代碼 Course Code	CHEM21500	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	/林哲仁				
先修課程 Prerequisite					

課程描述 Course Description

有機化學是探討有機分子的結構與其性質關係的學問，藉由對有機小分子行為的了解，進而推展至對生物大分子行為之認識，是本課程的主要目的。

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	Addition Reactions and Alkenes	
2	Addition Reactions and Alkenes	
3	Alkynes	
4	Alkynes	
5	Radical Reactions	
6	Alcohols and Phenols	
7	Alcohols and Phenols	
8	Ethers and Epoxides; Thiols and Sulfides	

9	期中考試週 Midterm Exam	
10	Conjugated Pi Systems and Pericyclic Reactions	
11	Aromatic Compounds	
12	Aldehydes and Ketones	
13	Aldehydes and Ketones	
14	Carboxylic Acids and Their Derivatives	
15	Carboxylic Acids and Their Derivatives	
16	Amine	
17	期末考週	
18		

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 Industy-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:

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(含出缺席) General Performance (Attendance Record)	5%	✓							
期中考成績 Midterm Exam	45%	✓							
期末考成績 Final Exam	45%	✓							
作業成績 Homework and/or Assignments	10%	✓							
其他 Miscellaneous (_____)									

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.)

Klein's Organic Chemistry
偉明圖書

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.)

其他補充說明 (Supplemental instructions)