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②国玄東華大學

教學計劃表 Syllabus

| | | 4人 | 产引到农 Oy | 110 | มบนธ | | | | | |
|--|---------------------------------------|----------------|---|------|----------------|-----------|---|--|--|--|
| | 名稱(中文) ame in Chinese | 有機化學(二) | | | | ester | 113/2 | | | |
| | 名稱(英文) ame in English | Organic Chemia | | | | | | | | |
| | 斗目代碼 urse Code | CHEM21900 | 系級 開課單位 CHEM21900 Department 学二 Course-Offering & Year Department | | | | 化學系 | | | |
| | 修別 Type | 學程 Program | 0/3.0 | | | | | | | |
| | 受課教師 structor | /林哲仁 | | | | | | | | |
| | も修課程 requisite | | | | | | | | | |
| | | 課 | 程描述 Course Desc | ript | ion | | | | | |
| 有機化學二課程中,強調官能基與性質之間的關係,因為不同的官能基不僅決定了分子的結構,也直接影響其化學性質、反應機理及物理性質。通過對這些官能基的性質進行深入研究,學生將能夠理解其在不同化學反應中的角色,並將這些知識應用於有機合成的實際操作中。此外,這種關聯也幫助學生理解化學結構與化學性質之間的密切聯繫,並提升他們在設計分子和預測反應性方面的能力。 | | | | | | | | | | |
| | | 課 | :程目標 Course Obj | ecti | ves | | | | | |
| | | | | | | | | | | |
| 系專業能力 Basic Learning Outcomes | | | | | | | 程目標與系專業能 力相關性 relation between urse Objectives and Dept.'s Education | | | |
| | | | | | | | Objectives | | | |
| A 具備 | 化學基礎知識 | | | | | | • | | | |
| B 具備 | 獨立思考及分析解決 | 問題之能 | | | | | • | | | |
| C 具備化學專業知 | | | | | | | • | | | |
| D 具備執行化學實驗之能力 | | | | | | | 0 | | | |
| E 具備 | 國際視野與外語能力 | | | | | | | | | |
| 圖示說明] | llustration : | ● 高度相關 H: | ighly correlated (|)中/ | 度相關 Moderately | corre | lated | | | |
| | | 授課進 | 度表 Teaching Sche | dule | & Content | | | | | |
| 週次Week | 週次Week 內容 Subject/Topics | | | | | 備註Remarks | | | | |
| 1 | 1 Ether, Epoxide and Thioether | | | | | | | | | |
| 2 | 2 IR, Mass Spectrometry, NMR | | | | | | | | | |
| 3 | 3 Conjugated System, Orbital Symmetry | | | | | | | | | |
| 4 | 4 Aromatic Compounds | | | | | | | | | |
| 5 | 5 Reactions of Aromatic Compounds | | | | | | | | | |
| 6 | 6 Reactions of Aromatic Compounds | | | | | | | | | |

| 7 | Ketone and Aldehyde | | | | | | |
|---|---|--|--|--|--|--|--|
| 8 | Ketones and Aldehydes | | | | | | |
| 9 | 期中考試週 Midterm Exam | | | | | | |
| 10 | Amine | | | | | | |
| 11 | Amine | | | | | | |
| 12 | Carboxylic acid | | | | | | |
| 13 | Carboxylic acid derivatives | | | | | | |
| 14 | Carboxylic acid derivatives | | | | | | |
| 15 | Condensation and alpha substitutions of carbonyl compouds | | | | | | |
| 16 | Condensation and alpha substitutions of carbonyl compouds | | | | | | |
| 17 | 期末考週 | | | | | | |
| 18 | | | | | | | |
| 教學策略 Teaching Strategies | | | | | | | |
| ✓ 課堂講授 Lecture | | | | | | | |
| 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 | | | | | | | |
| 社會責任(Social Responsibility) | | | | | | | |
| 在地實踐Community Practice | | | | | | | |
| 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 | 配分比例 Percentage | 多元評量方式 Assessments | | | | | | | |
| Items | | 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 | 5% | ~ | | | | | | | |
| 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.)

Organic Chemistry 10th global edition

Leroy G. Wade

滄海圖書

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)