國立台灣科技大學 114學年 第2學期　課程大綱

Spring 2026 NTUST Course Outline

授課教師：朱建威

Instructor:Chien-Wei Chu

課程名稱：有機化學(下)

Course Title：Organic Chemistry (II)

2026/11/3

課程代號： CH213B004 Course Code 學分數： 3 Credits	必選修：必修/全學年 Required/Electve:Required/Full Yr. 先修課程： Prerequisites
節次教室： Time/Location	M2(IB-511-2) R8(IB-511-2) R9(IB-511-2)
專業核心能力： Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	This course covers the structure and properties, preparation and reactions, reaction mechanisms, and stereochemistry of organic compounds, along with the application of spectroscopic analysis in determining molecular structures in organic chemistry. 介紹有機化合物的構造與性質、製備與反應 、反應機構、立體化學以及光譜學分析方法在有機化學上分子結構鑑定的應用。
課程大綱： Outline of Lectures	介紹有機化合物的構造與性質、製備與反應 、反應機構、立體化學以及光譜學分析方法在有機化學上分子結構鑑定的應用。 This course covers the structure and properties, preparation and reactions, reaction mechanisms, and stereochemistry of organic compounds, along with the application of spectroscopic analysis in determining molecular structures in organic chemistry. 1. Overview 2. Alkyl Halide; Nucleophilic Substitution 3. Structure and Synthesis of Alkenes; Elimination 4. Reactions of Alkenes 5. Structure and Synthesis of Alcohols 6. Reactions of Alcohols 7. Aldehydes and Ketones 8. Carboxylic Acids and Derivatives: 9. Amines (This is a tentative plan and is subject to change depending on the actual situation.)
授課方式： Method of Instruction	講授 Lecture：80% 分組討論 Group discussion：0% 案例研討 Case study：0% 操做練習 Practical exercises：20% 講授 Lecture：%
教科書： Textbooks	Leroy G. Wade and Jan William Simek, "Organic Chemistry", 10th Global Edition, Pearson Education Limited (2023).
參考書目： References	Leroy G. Wade and Jan William Simek, "Organic Chemistry", 10th Global Edition, Pearson Education Limited (2023).

修課須知： Notice	1. Maintain integrity; no cheating on exams. 2. Do not share course materials without permission. 3. If absent, request leave via the system and notify the teacher by email. 4. Be polite and respectful to classmates and the teacher. 5. Raise your hand for questions. 6. Avoid using phones or playing games in class to maintain a positive learning environment.
評量方式： Grading	Attendance: 5% Class Performance: 17% Midterm exam 1: 38% Midterm exam 2: 20% Final exam: 20%
備註說明： Notes	General Chemistry Organic Chemistry (I)