

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：武德勝

Instructor: VO DUC THANG

課程名稱：化學(下)

Course Title : Chemistry (II)

2026/6/22

課程代號： TE105B001 Course Code 學分數： 3 Credits	必選修：必修/全學年 Required/Elective: Required/Full Yr. 先修課程： Prerequisites
節次教室： F2(TR-410) F3(TR-410) M1(TR-410) M2(TR-410) Time/Location	
專業核心能力： 運用數學、科學及工程知識的能力與執行工程實務所需技術、技巧及使用現代化工具的能力。 Core Professional Competencies	
課程網址： Course Website	
課程宗旨： Course Objectives	1. This course is the second semester of a year-long chemistry sequence designed primarily for interdisciplinary program students who require a full year of chemistry, as well as for other interested students. The course covers major topics in chemistry and provides a solid foundation for future applications in engineering and related fields. Emphasis is placed on fundamental principles, problem-solving skills, and practical applications relevant to modern science and technology. 2. The main topics covered this semester include: Solid and liquid states and solutions, reaction rates and chemical equilibrium, acid-base equilibria, solubility and complex-ion equilibria, thermodynamics and equilibrium, electrochemistry, and nuclear chemistry.
課程大綱： Outline of Lectures	Chapter 11: States of Matter; Liquids and Solids Chapter 12: Solutions Chapter 13: Rates of Reaction Chapter 14: Chemical Equilibrium Chapter 15: Acids and Bases Chapter 16: Acid-Base Equilibria Chapter 17: Solubility and Complex-Ion Equilibria Chapter 18: Thermodynamics and Equilibrium Chapter 19: Electrochemistry Chapter 20: Nuclear Chemistry
授課方式： Method of Instruction	講授 Lecture : 0% 分組討論 Group discussion : 0% 案例研討 Case study : 0% 操做練習 Practical exercises : 0% 講授 Lecture : %
教科書： Textbooks	Ebbing, Gammon. General Chemistry. Eleventh Edition. Cengage Learning.
參考書目： References	Zumdahl et al. Chemistry 10e. Asia Edition. Cengage Learning.

修課須知：
Notice

評量方式：
Grading Quiz: 40%
 Midterm Exam 1: 20%
 Midterm Exam 2: 20%
 Final Exam: 20%

備註說明：
Notes None