

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)

2026/5/6

課程代號：GD120B001 Course Code	必選修：必修/全學年 Required/Elective: Required/Full Yr.
學分數：3 Credits	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：1. 運用數學、科學及工程知識的能力。 Core Professional Competencies 9. 具有外語閱讀及溝通之能力。	
課程網址： Course Website	
課程宗旨：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. Course Objectives 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：Chapter 11: States of Matter; Liquids and Solids Outline of Lectures 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：講授 Lecture：0% Method of Instruction 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：Ebbing, Gammon. General Chemistry. Eleventh Edition. Cengage Learning. Textbooks	
參考書目：Zumdahl et al. Chemistry 10e. Asia Edition. Cengage Learning. References	

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