

國立中正大學化學暨生物化學系 114 學年度第一學期 普通化學 (一)

科目代碼：2601101

科目班別：01

上課時間：星期二 13:10 ~ 14:00

星期四 13:10 ~ 15:00

上課地點：化生館 315 室

授課老師：曾炳堯 (化生館 508 室; 分機 66414)

E-mail: chebct@ccu.edu.tw

Syllabus for General Chemistry (一)

* Course Outline :

1. Chemists and Chemistry
2. Atoms, Molecules, and Ions
3. Stoichiometry
4. Types of Chemical Reactions and Solution Stoichiometry
5. Gases
6. Chemical Equilibrium
7. Acids and Bases
8. Applications of Aqueous Equilibria
9. Energy, Enthalpy, and Thermochemistry
10. Spontaneity, Entropy, and Free Energy,
11. Electrochemistry
12. Quantum Mechanics and Atomic Theory
13. Bonding : General Concepts
14. Covalent Bonding : Orbitals
15. Chemical Kinetics
16. Liquids and Solids
17. Properties of Solutions
18. The Representative Elements
19. Transition Metals and Coordination Chemistry
20. The Nucleus : Chemist's View
21. Organic and Biochemical Molecules

“Chemical Principles” - Steven S. Zumdahl & Donald J. DeCoste (Asian Edition)
8th Ed. (2017), Cengage Learning Asia Pte Ltd

* 學期成績計算：期中考 (35 %)、期末考 (35 %)、平常成績 (小考 30 %) & 點名