# 朝陽科技大學 095學年度第1學期教學大綱
# General Chemistry（Ⅰ）普通化學(一)

| | | | |
|---|---|---|---|
| 當期課號 | 1571 | Course Number | 1571 |
| 授課教師 | 謝定國 | Instructor | HSIEH,DEAN KUO |
| 中文課名 | 普通化學(一) | Course Name | General Chemistry（Ⅰ） |
| 開課單位 | 應用化學系(四日)一B | Department | |
| 修習別 | 必修 | Required/Elective | Required |
| 學分數 | 3 | Credits | 3 |
| 課程目標 | 介紹化學之基本知識與觀念，使學生開始接觸較基礎的有機化學、分析化學、物理化學、生物化學，以便在二年級以後更有效率地學習各門化學之專業科目。 | Objectives | This course deals with the prelimianry introduction of first-year college chemistry. It includes the basic materials of organic chemistry, inorganic chemistry, analytic chemistry and physical chemistry.The details of the contents involving chemical bonding, elements, and chemical compounds, solution chemistry, various types of chemical reaction consisting of acid and base, oxidation and reduction, precipitation, etc., thermochemistry, chemical equilibrium, kinetics, thermodynamics, coordination compounds, organic chemistry and polymers. The format of this course includes lecture, problem setes, examination and recitation. |
| 教材 | General Chemistry, The Essential Concepts, Fourth Ed. by Raymond Chang; publisher: McGraw Hill. | Teaching Materials | General Chemistry, The Essential Concepts, Fourth Ed. by Raymond Chang; publisher: McGraw Hill. |
| 成績評量方式 | 每教完一章,小考一次,一共考10次, 總成績爲100分. | Grading | average score in 10-time examinations, total 100 points. |
| 教師網頁 | | | |
| 教學內容 | 第一章 緒論<br>第二章 原子,分子及離子<br>第三章 化學計量法<br>第四章 水溶液反應<br>第五章 氣體<br>第六章 化學反應中的能量關係<br>第七章 原子的電子結構<br>第八章 週期表<br>第九章 化學鍵I<br>第十章 化學鍵II | Syllabus | Chapter1: Introduction<br>Chapter2: Atoms, Molecules, and Ions<br>Chapter3: Stoichiometry<br>Chapter4: Reactions in Aqueous Solutions<br>Chapter5: Gases<br>Chapter6: Energy Relationships in Chemical Reactions<br>Chapter7: The Electronic Structure of Atoms<br>Chapter8: The Periodic Table<br>Chapter9: Chemical Bonding I, The covalent bond<br>Chapter10: Chemical BondingII, molecular geometry and hybridization of atomic orbitals |

尊重智慧財產權，請勿非法影印。