

CHEM 210 General Chemistry I

CHEM 210 GENERAL CHEMISTRY I

This course is the first half of a two-semester sequence in general chemistry intended for students pursuing majors in physical sciences, biological sciences and engineering. The topics include atomic theory, stoichiometry, chemical bonding, thermochemistry, periodicity, molecular geometry, gas laws, solution stoichiometry, intermolecular forces and selected topics covering redox and acid-base reactions. The laboratory program includes gravimetric, colorimetric, and selected volumetric methods of analysis. Students are introduced to spreadsheet and graphical analysis of laboratory data and molecular modeling, and perform a variety of computer-interfaced experiments. *Letter Grade Only. Degree Credit.*

Units: 5

Hours/semester: 48-54 Lecture; 96-108 Lab; 96-108 Homework

Prerequisites: MATH 120 or MATH 123 (offered at CSM or Skyline) or satisfactory score on the College Placement Test or other multiple measures assessment that indicate proficiency in Intermediate Algebra.

Recommended: Any Preparation for Chemistry course or other measures that demonstrate proficiency in general science and preparation for study of college chemistry. This includes completion of high school chemistry with a grade of C or better.

AA/AS Degree Requirements: Area B1, B3; Math Competency

Transfer Credit: CSU (CSU GE Area B1, B3), UC (IGETC Area 5A, 5C)

C-ID: CHEM 110; CHEM 120S (both CHEM 210 & 220 must be taken)

