



## Chemistry Placement Test California Diagnostic Test 1997

The Chemistry Assessment Test, California Chemistry Diagnostic Test 1997, measures students' knowledge of chemical concepts for placement into CHEM 1010, CHEM 1020, or CHEM 1300. **Students have 45 minutes to answer 44 multiple-choice questions. No Calculator allowed.**

Students scoring less than 20 should register for CHEM 1010, Introduction to Inorganic Chemistry, if they have met the math prerequisite.

Students scoring 20 or more should register for CHEM 1020, Introduction to Organic Chemistry and Biochemistry or CHEM 1300, General Chemistry I, if they have met the course math prerequisite.

Students scoring less than 20 are permitted one retest after 24 hours of the first attempt.

### **Prerequisite(s)**

**CHEM 1010:** MATH 0960 Beginning Algebra II, or MATH 0980 Intensified Beginning Algebra; or eligibility for MATH 1141 Applied Algebra and Mathematical Reasoning; or department approval: equivalent knowledge or skills.

**CHEM 1020:** CHEM-1010 Introduction to Inorganic Chemistry or sufficient score on Chemistry Assessment test.

**CHEM 1300:** CHEM 1010 Introduction to Inorganic Chemistry, or sufficient score on the Chemistry Assessment Test; and MATH 1270 Intermediate Algebra\* or MATH 1280 Advanced Intermediate Algebra\* or sufficient score on the Math assessment test or department approval: equivalent knowledge or skills.

\*Note: MATH 1200 taken prior to Fall 2013 will also be accepted to fulfill prerequisite requirements.

## **Review Topics for General Chemistry Placement Test**

1. Basic Algebra – Solving linear equations
2. The Nature and Classification of Matter
3. Matter and Energy
4. Basic Atomic Structure and Electron Configuration
5. The Periodic Table and Its Trends
6. Ionic Compounds – Writing Chemical Formulas and Percentage Composition
7. Covalent Bonds and Molecular Forces
8. Basic Molecular Geometry – Lewis Structure and Valence Bond Theory
9. The Mole
10. Chemical Equations
11. Stoichiometry
12. Gases and Liquids
13. Basic Thermochemistry
14. Solutions – Units of Concentration
15. Basic Chemical Equilibrium
16. Acids and Bases