



CHM 090: Introduction to Chemistry

This course is designed for students who have not studied chemistry in high school or need a refresher introductory chemistry course. Topics include the metric system, exponential notation, atomic structure and the periodic table, the writing and use of chemical equations, stoichiometry of compounds and chemical reactions, the mole, chemical reactivity, types of chemical bonds, aqueous solutions, and acids and bases. The laboratory component provides applications of concepts covered in lecture. Three lecture hours and three laboratory hours per week. Instructional Support Fee applies. Note: CHM 090 cannot be used to meet the General Education Science requirement, nor does it carry degree credits. Grade points earned in this course will NOT be included in GPA calculations.

Course Student Learning Outcomes

1. Record and analyze scientific measurements.
2. Classify and differentiate matter by composition and properties.
3. Describe and explain atomic structure and its relationship to the periodic table.
4. Identify and name compounds based upon the type of bonding and describe the process of ionic and covalent bond formation.
5. Categorize and complete chemical reactions and represent them with balanced chemical equations.
6. Explain relationships among moles, particles and mass and perform stoichiometric calculations using balanced chemical equations.

Credits: 4

Program: Chemistry