

Spokane Falls Community College

COURSE LEARNING OUTCOMES

Prefix and Course Number: CHEM&121
Course Title: Intro to Chemistry with Lab
Version Date: 4/2/2019

Course Learning Outcomes

Upon successful completion of the course, the student will be able to:

1. State the fundamental assumptions of atomic theory and explain the composition of atoms, including electronic configuration.
2. Describe the arrangement of elements in the periodic table based on their electronic configuration, bonding, and properties.
3. Explain the formation of ionic and covalent bonds. Name molecular and ionic compounds and compare/contrast their physical and chemical properties.
4. Perform stoichiometric calculations.
5. Recognize and predict the products of precipitation, acid-base neutralization, and redox reactions. Write balanced chemical equations and net ionic equations.
6. State the assumptions of kinetic molecular theory and apply the gas laws to predict the behavior of gases.
7. Perform pertinent laboratory experiments, record observations, analyze data, and present the results in written form.