

Spokane Falls Community College

COURSE LEARNING OUTCOMES

Prefix and Course Number:	CHEM&110
Course Title:	Chemical Concepts with Lab
Version Date:	4/2/2019

Course Learning Outcomes

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

1. Describe the scientific method and give examples of experiments that led to the discovery of the structure of atoms.
2. Explain the differences between the structure, nomenclature, physical and chemical properties of:
 - a. molecular and ionic compounds,
 - b. organic and inorganic compounds
3. Predict the product(s) of common chemical and nuclear reactions.
4. Apply the gas laws to predict the behavior of gases.
5. Apply/relate the above concepts to various topics selected by the instructor such as:
 - a. Climate Change
 - b. Water and Air Pollution
 - c. Energy Sources: Renewable and non-renewable
 - d. Plastics and Polymers
 - e. Nutrition and Drugs
 - f. Genetic Engineering
6. Perform pertinent laboratory experiments, record observations, analyze data, and present the results in written form.