

Southeastern University
College of Natural & Health Sciences
Department of Natural Sciences
CHEM 1533 - General Chemistry I
Official Syllabus

Catalog Description

This course is a fundamentals of chemistry course with emphasis on mass and energy relationships in chemical changes, equilibrium, atomic and molecular structure, and descriptive chemistry of selected elements and compounds.

Prerequisite: CHEM 1213 or MATH 1413 or a score of 36 or higher on the chemistry placement exam

Credit Hours: 3

Corequisite: CHEM 153L

Repeatable: Course not repeatable

Intended Learning Outcomes

Students who successfully complete this course will:

1. Describe matter in terms of atoms, molecules, and ions.
2. Apply the stoichiometric relationships of matter.
3. Understand the nature of electrolytic solutions and reactions.
4. Understand the role of thermodynamics in simple chemical reactions.
5. Predict the properties of elements based on periodic trends.
6. Describe the fundamental types of bonding.
7. Predict molecular geometries in terms of molecular electron structures.
8. Calculate the relationships between pressure, volume, moles, and temperature in gaseous systems.

Version History

v1.0 Original course proposal.

11/14/2023 v2.0 Updated.