

GS 105 : PHYSICAL SCIENCE: CHEMISTRY

Transcript title

Physical Science: Chemistry

Credits

4

Grade mode

Standard letter grades

Contact hours total

60

Lecture hours

30

Lab hours

30

Recommended preparation

one year of high school algebra or equivalent or concurrent enrollment in [MTH 060](#).

Description

Provides an introduction to properties and structures of matter, chemical bonding, solutions, equilibrium, electrolytes, and acids and bases. Also includes quantitative discussions of the mole, stoichiometry and solution concentration.

Learning outcomes

1. Understand and use the fundamental symbolic language of chemistry.
 2. Understand the fundamental composition and structure of matter; explain and predict its corresponding behavior.
 3. Understand the nature and types of energy; explain and predict its interaction with matter.
 4. Use mathematics to understand and solve chemical problems.
 5. Understand the process of scientific inquiry and apply the scientific method in the laboratory.
 6. Apply chemical concepts to new situations in our lives.
- Secondary outcomes
7. Develop/improve critical thinking and analytical skills.
 8. Share one's ideas and value others' ideas.
 9. Employ teamwork and assessment tools for improving efficiency and gaining insight.

General education/Related instruction lists

- Science Lab