

CHEM 110 : Studies in Chemistry II

A continuation of studying chemistry principles and their applications. The topics include solution properties, acids, bases, equilibrium, kinetics, descriptive chemistry of the elements, ionic equations, oxidation-reduction, nuclear chemistry, and an introduction to organic chemistry.

Credits 4

Prerequisite Courses

CHEM 109

LIBR 150

Course Outcomes

After successfully completing the course, the learner will be able to:

- demonstrate acquaintance with the principles of chemistry so that the student can appreciate the scientific method and the workings of chemistry as a science
- demonstrate scientific literacy which can enable the nonscientist to make reasoned judgments on those societal issues which are grounded in chemistry.
- develop an understanding of the steps required to solve complex quantitative problems involving chemical formulas and equations.
- demonstrate understanding of the structure of solids and intermolecular forces.
- demonstrate competency to investigate and understand that the phases of matter are explained by kinetic theory and forces of attraction between particles.
- demonstrate competency to investigate and understand that quantities in a chemical reaction are based on molar relationships.
- demonstrate competency to investigate and understand that the phases of matter are explained by kinetic theory and forces of attraction between particles.
- demonstrate competency investigate and understand how basic chemical principles relate to many areas of chemistry.

Competency

Scientific Reasoning