

CHEM 1380 Basic Chemistry for Engineers

Course Description:

This is primarily for students in engineering faculty requiring a one-semester introductory in general chemistry at a fundamental level. It includes the study of atomic structure, bonding, periodic trends in physical properties, molecular geometry, stoichiometry, states of matter, thermodynamics, chemical equilibrium, acid/base chemistry, electrochemistry and kinetics.

Main Course Outline (for reference only):

1. Introduction to chemistry Atoms, Molecules, and Ions
2. Electronic Structure of Atoms Periodic Properties of the Elements
3. Chemical Bonding
4. Chemical Reactions and Solutions - An Introduction
5. Gas, Liquids, Solids and Modern Materials
6. Thermochemistry Chemical Thermodynamics
7. Chemical Kinetics
8. Chemical Equilibrium
9. Acid and Base
10. Electrochemistry