

CHEMISTRY

TEXT

Chemistry

PREREQUISITES

Algebra I required and one year of Biology suggested

OBJECTIVES

The course is designed to give students a strong understanding of chemistry for college or practical use. Emphasis on:

- Laboratory skills
- Organization
- Inquiry and analysis
- Critical observations
- Data collection
- Note taking skills

CONTENT

- Orientation and metric measurement
- Historical development of chemistry
- Atomic structure and the periodic table
- Molecular structure and formula writing
- Chemical reactions and equations
- Stoichiometry
- Acids and bases
- Organic chemistry
- Consumer chemistry
- Nuclear chemistry

SKILLS

- Note taking
- Organization
- Cooperative learning
- Scientific method
- Inquiry and analysis
- Critical observation
- Data collection

METHODS

Homework is imperative, consisting of:

- completion of classroom assignments
- specific out-of-class assignments
- text and copied readings or written assignments
- reviewing past assignments
- reviewing notes
- research papers

One, or more, out-of-class assignments will be given each week.

GRADING/CREDITS

Grades are determined by accumulated points and percentages with extra-credit opportunities always available as a means of raising the grade. To earn full credit, 100% of all assignments (or equivalent work) must be submitted. Excessive absences require additional work.

INDIVIDUALIZATION

The sciences provide a natural means of individualization as the concepts studied can be easily geared to any level of sophistication within the same subject matter area. Various texts, supplementary materials, laboratory studies, and individual projects can be adapted to meet individual needs and abilities.

ABSENCES/TARDIES

Handled immediately with student and parent contact and, if severe, lowered grade and/or credit.