
SUBJECT:

CHEMISTRY

STATUS: Authority Subject

CODE: CHM

COST: TBA

**COURSE
OVERVIEW:**

Senior Chemistry provides a fundamental understanding of the materials around us and why they behave as they do. It involves the study of why and how different materials react as well as the properties of different groups of chemicals. It also provides a sound basis for further studies in Chemistry. Chemistry covers many fields.

The general objectives are to develop:

1. Knowledge and Conceptual Understanding
2. Investigative Processes
3. Evaluating and Concluding
4. Attitudes and Values

**COURSE
STRUCTURE**

- Basic concepts and common elements
- Solids, liquids and gases
- Solutions
- Chemical calculations
- Atomic structure and electronic configuration
- Chemical bonding
- Acids, bases and salts
- Precipitation reactions
- Volumetric analysis
- Oxidation and reduction reactions
- Compounds of carbon
- Energy – Chemical aspects
- Analytical Chemistry
- Rate of reaction and chemical equilibrium
- Periodic table and survey of elements
- The gas laws

**ASSESSMENT
TECHNIQUES:**

1. Extended Experimental Investigations
2. Written Tasks
3. Extended Response Tasks

**SPECIAL
REQUIREMENTS:**

Students entering this course would have achieved a minimum of C in Extension Science.

Scientific Calculator essential.

Excursions will be part of this course, and hence, incur associated costs.

