

Chemistry I and 2

Level: Stage I

Course length: 1 semester or
2 semesters

Credit value: 10 Credits
20 Credits

Advice to students

Assumes Year 10 Science knowledge.

Students can take Chemistry 1 and Chemistry 2 for a full year of Chemistry. Alternatively Chemistry 1 can be studied as a stand-alone semester.

Course overview

Stage I Chemistry, science inquiry skills and science as a human endeavour are integral to students' learning in this subject and are interwoven through the science understanding, which is organised into four topics.

In their study of these topics, students develop and extend their understanding of some of the fundamental principles and concepts of chemistry including structure, bonding, polarity, solubility, acid-base reactions, and redox. These are introduced in the individual topics with the mole concept and some energy concepts introduced gradually throughout these topics.

10 credit or 20 credit subject

Chemistry 1: Topics:

1. Materials and their atoms
2. Combination of atoms
3. Molecules

Assessment

For a 10 credit subject, students provide evidence of their learning through four assessments. Each assessment type should have a weighting of at least 20%.

Students complete:

- at least one practical investigation
- at least one science as a human endeavour investigation
- at least one skills and applications task

10 credit subject

Chemistry 2: Topics:

1. Mixtures and solutions
2. Acids and bases
3. Redox reactions

Assessment

For a 20 credit subject, students provide evidence of their learning through eight assessments. Each assessment type should have a weighting of at least 20%.

Students complete:

- at least one practical investigation
- at least one science as a human endeavour investigation
- at least one skills and applications task

Pathways

This subject contains essential skills and knowledge and is a prerequisite for SACE Stage 2 Chemistry.

Further information

Biology students at SACE Stage 2 would find it advantageous to study Chemistry 1.