



## Aims

Chemistry is the study of matter and energy, involving a consideration of the composition of substances, their preparation and their effects on one another. This course familiarises students with a wide range of chemicals and processes, with particular emphasis being given to those involved in everyday living, in biological systems and in the activities of industry.

## Learning outcomes

After successfully completing this subject students should be able to:

- > Demonstrate a knowledge and understanding of chemical concepts using appropriate scientific terminology.
- > Communicate concepts using correct chemical terms and conventions.
- > Develop laboratory skills including following a procedure, recording and interpreting observations and correctly using apparatus particularly glassware.
- > Complete written experimental reports.

## Prerequisites and assumed knowledge

There are no prerequisites or assumed knowledge for this subject.

## Subject content

Week	Topic and assessment schedule
1	Orientation week
2 – 3	Atomic Structure
4	Periodic Table
5 – 7	Stoichiometry
8	Redox
11 – 14	Bonding
15 – 18	Revision and Exams
19 – 21	Energy
22 – 23	Rates of reaction
24 – 30	Organic Chemistry
31 – 32	Equilibrium
33 – 35	Acids and Bases
36	Revision
37 – 38	SWOTVAC & Exams
39	Graduation and transcript collection
40	End of course



## Assessment

General weightings for each assessment item are outlined below

Assessment item	Weighting	Due dates
Tests (7)	25%	Weeks 6, 12, 16, 25, 28, 32, 35
Assignments (6)	10%	Weeks 5, 13, 17, 24, 33, 36
Practical reports (4)	15%	Weeks, 12, 15, 29, 35
Midyear theory examination	5%	Week 16
Midyear practical examination	7.5%	As per College examination timetable
Practical oral presentation	2.5%	Week 26
Final examination	30%	As per College examination timetable
Participation	5%	Continuous