



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 – 9	Bonding
10	Stoichiometry
Break	
11 – 12	Stoichiometry
13 – 15	Redox
16 – 17	Revision
18	SWOTVAC
19	Exam Week
20	Exam review, Energy
Break	
21	Energy
22 – 23	Rate of reaction
24 – 30	Organic Chemistry
Break	
31 – 32	Equilibrium
33 – 35	Acids and Bases
36	Revision. SWOTVAC
37 – 38	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%	As per Assessment schedule
Assignments (11)	10%	Weeks 3, 5, 8, 12, 15, 22, 25, 29, 31, 33, 34
Practical reports (12)	10%	Due one week after the practical session. Weeks 6, 9, 11, 12, 13, 14, 15, 22, 26, 27, 28, 33
Midyear theory examination	15%	As per College examination timetable
Midyear practical examination	7.5%	As per College examination timetable
Oral presentation	2.5%	Week 32
Final examination	25%	As per College examination timetable
Participation	5%	Continuous