

In Progress

Please note that this Unit Profile is still in progress. The content below is subject to change.



CHEM11044 *Chemical Reactions*

Term 2 - 2027

Profile information current as at 17/09/2026 11:31 am

All details in this unit profile for CHEM11044 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

This unit will provide you with an understanding of the fundamental principles of chemical kinetics, thermodynamics, redox chemistry, equilibrium, pH, basic spectroscopy and organic reactions and mechanisms. You will learn about reactions and how they can be manipulated. You will be introduced to a range of chemical calculations involving rates, cell potentials, equilibrium constants, and pH, as well as techniques for analysing spectral data for chemical structure determination. This unit will provide a strong foundation for further studies in analytical and materials sciences, physical and organic chemistry. This unit has a compulsory residential school. These laboratory sessions will emphasise laboratory safety and compliance, and introduce you to skills relating to sample preparation, data collection, synthesis, spectroscopic analyses and report writing.

Details

Career Level: *Undergraduate*

Unit Level: *Level 1*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Pre-requisite or Co-requisite: CHEM11043 Atoms, Molecules and Matter

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 2 - 2027

- Mixed Mode

Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

Class and Assessment Overview

Information for Class and Assessment Overview has not been released yet.
This information will be available on Monday 17 May 2027

CQUniversity Policies

All University policies are available on the [CQUniversity Policy site](#).

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Academic Progression Policy and Procedure
- Student Refund and Credit Balance Policy and Procedure
- Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from SUTE

Feedback

Students noted that some lectures were outdated, and the pre-recorded videos had poor sound and occasional glitches, making the content hard to follow.

Recommendation

To enhance learning, the Unit Coordinator should update lecture content to reflect current knowledge and, where possible, re-record or edit videos to improve comprehension and engagement.

Feedback from SUTE

Feedback

Students praised the residential school for helping them apply their knowledge practically and supporting their personal growth.

Recommendation

Positive student feedback highlights the value of hands-on activities in the laboratory manual, which the Unit Coordinator and team should continue to use and update where possible to enhance engagement and practical application of theoretical knowledge.

Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.
This information will be available on Monday 17 May 2027

Alignment of Learning Outcomes, Assessment and Graduate Attributes

Information for Alignment of Learning Outcomes, Assessment and Graduate Attributes has not been released yet.
This information will be available on Monday 17 May 2027

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.
This information will be available on Monday 21 June 2027

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.
This unit profile has not yet been finalised.