

In Progress

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



CHEM11042 *Fundamentals of Chemistry*

Term 1 - 2026

Profile information current as at 05/12/2025 02:46 pm

All details in this unit profile for CHEM11042 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 the fundamental principles of chemistry that underpin the medical sciences and provide a strong foundation on which you can develop an understanding of biochemistry and molecular science. You will gain an appreciation of the nature of matter, classic atomic structure and how energy is involved in bond formation. These concepts will be developed to explain the forces between molecules that govern chemical interaction. You will be introduced to the chemistry of electrolytes, acids, bases and buffers. This study will be supported by simple calculations to assist you in relating to the pH scale. The study of organic chemistry and molecules central to the life sciences will enable you to develop an understanding of the biochemistry and molecular biology relevant to your specific discipline. The naming and classifying of chemical compounds will enable you to be conversant with accepted scientific terms. Tutorials and on-line activities will complement the theoretical knowledge gained in lectures and provide you with the basic mathematical and analytical tools required in the application of chemistry to your specific discipline.

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

There are no requisites for this unit.

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 1 - 2026

- Online

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 12 January 2026

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
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and 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

Some students commented that a clear requirement for using the Vancouver referencing style in Assessment 2 is needed.

Recommendation

The Vancouver referencing style is the standard citation method in medicine, health sciences, and related disciplines. As the majority of stakeholders in this unit are drawn from health sciences, it is essential that students are proficient in this style and apply it consistently in their assessments. To ensure this outcome and support students' learning, the Unit Coordinator should collaborate with the Academic Learning and Teaching Team to organise a dedicated training workshop at the commencement of the term. The workshop should provide students with the skills required to manage references effectively using platforms such as EndNote or Zotero, while also offering explicit instruction on the correct application of in-text citations. Implementing this initiative will foster academic integrity, improve consistency across submissions, and align student practice with professional and disciplinary standards. Alternatively, a different referencing style should be adopted for assessments in this unit once the referencing requirements of all disciplines have been confirmed, in order to ensure consistency.

Feedback from SUTE

Feedback

Student enjoyed the unit coordinator delivered the unit content this term

Recommendation

This is encouraging feedback. The Unit Coordinator continually strives to improve teaching skills to meet the needs of multidisciplinary cohorts each term.

Feedback from SUTE

Feedback

Some students commented that it was difficult to understand how the teaching content relates to their disciplines.

Recommendation

The Unit Coordinator should collaborate with the senior staff member from the Office of Education, Strategy and Quality, alongside the Learning Design Team, to determine and implement the required actions in response to the feedback. This may include, for instance, the integration of discipline-specific resources into weekly content and assessment descriptors. Furthermore, the Head of Course (HoC) will engage with the HoCs of each discipline to appoint a staff member to work closely with the Unit Coordinator in supporting the execution of these initiatives.

Feedback from SUTE

Feedback

Some students commented that the online verbal communication sessions could be improved for greater smoothness and fluency, for example by reducing or eliminating filled pauses such as “um” and “uh.”

Recommendation

To improve verbal communication and reduce the use of filled pauses such as “uh” and “um,” speakers should practice pausing silently instead of using filler words and slow down the pace of their speech.

Feedback from SUTE

Feedback

Some students noted that the questions in Assessment 2 were challenging, and that one of the questions requires more clarity.

Recommendation

The Unit Coordinator should continue conducting the peer assessment review to ensure that the questions are appropriately leveled. Additionally, the questions should be run through Copilot to verify their clarity and comprehensiveness.

Feedback from SUTE

Feedback

The student noted that the unit has heavy content for the amount of time given, and most of it is not relevant to his/her course.

Recommendation

The Unit Coordinator previously held discussions with the Head of Course (HoC) and the teaching team regarding the unit's content. It was determined that the volume of material aligns with the unit's requirements. However, the Unit Coordinator should maintain ongoing dialogue with the HoC and seek feedback from the Heads of Course across all relevant disciplines involved in the unit.

Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.

This information will be available on Monday 12 January 2026

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 12 January 2026

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.

This information will be available on Monday 16 February 2026

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.