CHEM12077 *Food Science & Analysis*
Term 2 - 2026

Profile information current as at 05/12/2024 04:53 am

General Information

Overview

In this unit, you will learn theoretical and practical applications in food science and analysis. You will become familiar with laboratory compliance procedures, interpret risks and appropriate risk-minimisation approaches. The theoretical concepts will include an overview of food science, systems and sustainability, food chemistry and composition, food quality and safety, food preservation, food additives, foods and food products, fermentation, microorganisms, biotechnology, food packaging, environmental concerns and processing, and food regulation and labelling. Contents covered in this unit will provide a sturdy basis for studies in food science, systems and sustainability. Contents covered in this unit will enable you to be able to understand the implications of food science and analysis associated with manufacturing, environment, biotechnology and regulations. Accompanying the theory, you will enhance your practical skills by learning the operation and maintenance of common instrumentation used for food analysis, perform wet chemical analysis, data interpretation and appropriate communication of the results.

Details

Career Level: *Undergraduate*
Unit Level: *Level 2*
Credit Points: *6*
Student Contribution Band: *8*
Fraction of Full-Time Student Load: *0.125*

Pre-requisites or Co-requisites

Prerequisites: CHEM11041 OR CHEM11043 or (CHEM11044 and CHEM11045)
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 - 2026

- 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

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
Students expressed that the diverse range of assessments in this unit offered valuable learning opportunities, and they particularly appreciated the structure of the take home exam.

Recommendation
The teaching team is committed to consistently providing and managing a diverse range of assessments to ensure valuable and enriching learning opportunities for students.

Feedback from SUTE

Feedback
Students felt that guided support from the teaching team during the residential school significantly transformed their learning experiences, providing clarity in experiment processes and practical applications.

Recommendation
The teaching team will continue to provide a high level of support and engagement during residential school classes.

Feedback from SUTE, Self and peer review

Feedback
Students expressed a preference for more consistent engagement with the teaching team throughout the year, beyond the residential school period

Recommendation
The teaching team is planning to conduct regular Zoom Q&A sessions with students throughout the term to enhance engagement and enrich their overall learning experience.

Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.
This information will be available on Monday 18 May 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 18 May 2026

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.
This information will be available on Monday 22 June 2026

Academic Integrity Statement

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