

In Progress

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



SCIE13012 *Natural Products Chemistry*

Term 1 - 2027

Profile information current as at 07/09/2026 09:56 pm

All details in this unit profile for SCIE13012 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 interdisciplinary unit integrates principles from chemistry, biology, pharmacology, and environmental science to enhance your understanding of chemistry concepts. Within this unit, you will explore organic compounds derived from living organisms, including plants, fungi, bacteria, and marine life, uncovering their diverse biological uses and applications. You will develop proficiency in advanced laboratory compliance procedures and practice skills for identifying, analyzing, and applying effective inquiry-based learning strategies in a laboratory setting. The core theoretical concepts encompass bioassay-guided isolation and characterization, biosynthesis of complex molecules, the influence of drug discovery on research direction, ecological roles within ecosystems (e.g., plant-herbivore interactions, pollination, defense mechanisms, and chemical signaling), indigenous traditional use that highlights ethnobotanical knowledge, and the commercial-economic significance spanning industries like pharmaceuticals, cosmetics, and agriculture. This unit will equip you with essential attributes for further research studies or a career in chemical sciences-related fields. It fosters an appreciation for the value of comprehensive knowledge in natural products chemistry, particularly in relation to biochemistry, bioactivity, pharmacology, functional foods, manufacturing, environmental studies, and medical applications. Additionally, you will enhance your practical investigative skills by applying theoretical knowledge to operate and maintain key chemical analysis instruments while conducting comprehensive bioassay-guided isolation and characterization of bioactive natural products.

Details

Career Level: *Undergraduate*

Unit Level: *Level 3*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Completion of 72 credit points.

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 - 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 11 January 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](#).

Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.
This information will be available on Monday 11 January 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 11 January 2027

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.
This information will be available on Monday 15 February 2027

Academic Integrity Statement

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