

Profile information current as at 05/05/2024 02:12 pm

All details in this unit profile for EVST19023 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

On completion of this unit, you will have an understanding of the basic relationships between catchment health, water quality and ecosystem health in receiving waters. You will be able to explain the major threats to water quality and the ways to monitor and manage those threats through the monitoring of physical, chemical and biological parameters and through the preparation of water quality assessment plans. You must attend a compulsory residential school as part of this unit.

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

Prerequisite: 24 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 <u>Assessment Policy and</u> <u>Procedure (Higher Education Coursework)</u>.

Offerings For Term 1 - 2023

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).

Residential Schools

This unit has a Compulsory Residential School for distance mode students and the details are: Click here to see your <u>Residential School Timetable</u>.

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

Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

Regional Campuses

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

Metropolitan Campuses Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

 Practical and Written Assessment Weighting: 30%
Practical Assessment Weighting: Pass/Fail
Written Assessment Weighting: 35%
Online Test Weighting: 35%

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the <u>University's Grades and Results Policy</u> for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the <u>CQUniversity Policy site</u>.

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 <u>CQUniversity Policy site</u>.

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 Student Unit Evaluation

Feedback

Students requested some information on the role of artificial wetlands in water treatment. Reflecting student interest in specific aspects of water treatment.

Recommendation

To improve the learning experience, students should be given opportunities to communicate specific areas of interest that they have in water resource management at the outset of the term, perhaps through a survey/form. Teaching staff should then seek to include some content to address these specific areas of interest.

Feedback from Student Unit Evaluation

Feedback

Students found the unit content, structure and level of teaching support very helpful.

Recommendation

Maintain weekly drop in sessions for students and continue to implement review questions.

Unit Learning Outcomes

On successful completion of this unit, you will be able to:

- 1. Describe the basic relationships between catchment health, water quality and end of catchment health
- 2. Describe the major threats to instream and coastal water quality and the effects of land based pollutants on ecosystem health
- 3. Explain the important physico-chemical and biological indicators of water quality and their application
- 4. Discuss different management strategies to reduce diffuse and point source pollutants
- 5. Apply appropriate standards and national guidelines, interpret data and results when designing a water quality assessment plan
- 6. Work with others to assess water quality and ecosystem health in aquatic systems.

Alignment of Learning Outcomes, Assessment and Graduate Attributes

N/A Level

Intermediate Level Introductory Level

Graduate Level

Professional Advanced Level

Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes					
	1	2	3	4	5	6
1 - Written Assessment - 35%			•	•	•	•
2 - Practical and Written Assessment - 30%	•	•	•	•	•	
3 - Practical Assessment - 0%						•
4 - Online Test - 35%	•	•	•	•		

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Lea	Learning Outcomes				
	1	2	3	4	5	6
1 - Communication	•	•	•	•	•	
2 - Problem Solving		•	•	•	•	•
3 - Critical Thinking		•	•	•	•	•
4 - Information Literacy	•	•	•	•	•	•
5 - Team Work						•
6 - Information Technology Competence	•	•	•	•	•	•
7 - Cross Cultural Competence		•		•		
8 - Ethical practice				•	•	
9 - Social Innovation						
10 - Aboriginal and Torres Strait Islander Cultures						

Textbooks and Resources

Textbooks

There are no required textbooks.

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Word processing software such as MS Word

Referencing Style

All submissions for this unit must use the referencing style: <u>Harvard (author-date)</u> For further information, see the Assessment Tasks.

Teaching Contacts

Alex Kenins Unit Coordinator a.kenins@cqu.edu.au Amie Anastasi Unit Coordinator a.anastasi@cqu.edu.au

Schedule

Week 1 - 06 Mar 2023		
Module/Topic	Chapter	Events and Submissions/Topic
Week 1. Study Guide. Water as a Resource		
Week 2 - 13 Mar 2023		
Module/Topic	Chapter	Events and Submissions/Topic
Week 2. Study Guide. Physical and chemical properties of water.		
Week 3 - 20 Mar 2023		
Module/Topic	Chapter	Events and Submissions/Topic
Week 3. Study Guide. Water pollutants and their sources.		
Week 4 - 27 Mar 2023		
Module/Topic	Chapter	Events and Submissions/Topic
Week 4. Study Guide. Microbiology of water.		RESIDENTIAL SCHOOL Competency Assessment at Residential School
Week 5 - 03 Apr 2023		
Module/Topic	Chapter	Events and Submissions/Topic

Week 5. Study Guide. Water treatment.

Residential School Report Due: Week 5 Friday (7 Apr 2023) 11:45 pm AEST Vacation Week - 10 Apr 2023 Module/Topic Chapter **Events and Submissions/Topic** Week 6 - 17 Apr 2023 Module/Topic Chapter **Events and Submissions/Topic** Week 6. Study Guide. Wastewater treatment. Week 7 - 24 Apr 2023 Module/Topic Chapter **Events and Submissions/Topic** Week 7. Study Guide. Project design, monitoring, quality assurance and reporting. Week 8 - 01 May 2023 Chapter **Events and Submissions/Topic** Module/Topic Week 8. Study Guide. Water quality standards, quality assurance and quality control. Week 9 - 08 May 2023 Module/Topic Chapter **Events and Submissions/Topic** Week 9. Study Guide. Integrated habitat assessment. Week 10 - 15 May 2023 Chapter **Events and Submissions/Topic** Module/Topic Water Management Plan Due: Week 10. Study Guide. Management Week 10 Monday (15 May 2023) 11:45 of water resources. pm AEST Week 11 - 22 May 2023 Module/Topic Chapter **Events and Submissions/Topic** Week 11. Study Guide. Catchment management. Week 12 - 29 May 2023 Module/Topic Chapter **Events and Submissions/Topic Examination Review** Review/Exam Week - 05 Jun 2023 Module/Topic Chapter **Events and Submissions/Topic** The date for the End of Term Online Assessment will be announced in Term 1. This assessment will be scheduled within the Examination block. Exam Week - 12 Jun 2023 **Events and Submissions/Topic** Module/Topic Chapter The date for the End of Term Online Assessment will be announced in Term 1. This assessment will be scheduled

within the Examination block.

1 Residential School Report

Assessment Type

Practical and Written Assessment

Task Description

There will be a practical and written component to this assessment. You will be required to complete a report sheet based on the residential school activities.

A template with the information required and the questions that need to be answered will be provided on the Moodle site.

Assessment Due Date

Week 5 Friday (7 Apr 2023) 11:45 pm AEST

Week 5 maay (7 Apr 202

Return Date to Students Week 6 Friday (21 Apr 2023)

Weighting

30%

Minimum mark or grade 50%

Assessment Criteria

The ability to perform laboratory and field tasks in addition to correctly answering questions on these is the basis of completing the Residential School Report.

The report will be assessed on the completeness and correctness of the answers.

Referencing Style

• Harvard (author-date)

Submission

Online

Submission Instructions

You will be required to perform the practical exercises during the residential school and will need to upload an electronic copy of the report sheet as a Word document as well as any additional Excel files into Moodle.

Learning Outcomes Assessed

- Describe the basic relationships between catchment health, water quality and end of catchment health
- Describe the major threats to instream and coastal water quality and the effects of land based pollutants on ecosystem health
- Explain the important physico-chemical and biological indicators of water quality and their application
- Discuss different management strategies to reduce diffuse and point source pollutants
- Apply appropriate standards and national guidelines, interpret data and results when designing a water quality assessment plan

2 Competency Assessment

Assessment Type

Practical Assessment

Task Description

You are required to collect field samples according to protocols and correctly complete a Chain of Custody Form that would be required in order to legally send these samples to a laboratory for further analysis. This task is completed at the compulsory Residential School. This is a Pass/Fail task.

Assessment Due Date

Completed during Residential School.

Return Date to Students

Returned to students during Residential School.

Weighting

Pass/Fail

Assessment Criteria

You will be assessed on the use of correct sampling protocols, completeness, correct reference to samples collected and readability of the Chain of

Custody Form completed at the Residential School. This is a Pass/Fail Task.

Referencing Style

• Harvard (author-date)

Submission

Offline

Learning Outcomes Assessed

• Work with others to assess water quality and ecosystem health in aquatic systems.

3 Water Management Plan

Assessment Type

Written Assessment

Task Description

Design a monitoring plan for the waterway that is described in detail on the Moodle site. Identify the environmental stressors present in the system and discuss the field parameters and laboratory analyses that are relevant to them. Mention any health and safety issues that may be associated with the specific waterway. Complete the risk assessment that would also accompany this plan.

Assessment Due Date

Week 10 Monday (15 May 2023) 11:45 pm AEST

Return Date to Students

Week 12 Monday (29 May 2023)

Weighting 35%

Minimum mark or grade 50%

Assessment Criteria

Discussion of the environmental values and water quality issues (35%) Appropriate choice of parameters and analyses and reasons for their selection (40%) Appropriate safety procedures covered in the Risk Assessment (10%) Clear writing style in correct English, accurate referencing, appropriate length and format (15%)

Referencing Style

• Harvard (author-date)

Submission

Online

Learning Outcomes Assessed

- Explain the important physico-chemical and biological indicators of water quality and their application
- Discuss different management strategies to reduce diffuse and point source pollutants
- Apply appropriate standards and national guidelines, interpret data and results when designing a water quality assessment plan
- Work with others to assess water quality and ecosystem health in aquatic systems.

4 End of Term Online Test

Assessment Type

Online Test

Task Description

The end of term online test will be available within the examination period. The online quiz/test is an assessment for EVST19023 and covers content you have studied within weeks 1 to 12. You will only be allowed 1 attempt at this assessment. There are 7 Questions each worth 15 marks in this ONLINE assessment. The total marks allocated to this assessment item is 105. It contributes 35% of your final grade.

Assessment Due Date

The online test is scheduled during the end of term examination period. The date for this test will be announced in Term 1.

Return Date to Students

Results will be available at Certification of Grades.

Weighting

35%

Minimum mark or grade 50%

Assessment Criteria

The end of term online assessment will be assessed with respect to the completeness and correctness of the answers.

Referencing Style

• Harvard (author-date)

Submission

Online

Learning Outcomes Assessed

- Describe the basic relationships between catchment health, water quality and end of catchment health
- Describe the major threats to instream and coastal water quality and the effects of land based pollutants on ecosystem health
- Explain the important physico-chemical and biological indicators of water quality and their application
- Discuss different management strategies to reduce diffuse and point source pollutants

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the **Student Academic Integrity Policy and Procedure**. This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?

For academic advice and guidance, the <u>Academic Learning Centre (ALC)</u> can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?





Seek Help If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



Produce Original Work Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem