

Profile information current as at 12/05/2024 04:55 am

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.

Corrections

Unit Profile Correction added on 27-02-17

The residential school for this unit is from 8th to 10th May 2017 and not the dates that appear in the Schedule of the Unit Profile.

For residential school dates always refer to the link to the Residential School Timetable in the General Information section of the Unit Profile.

General Information

Overview

On completion of this unit, students will have an understanding of the basic relationships between catchment health, water quality and ecosystem health in receiving waters. Students should 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. Students must attend a compulsory residential school or on-campus lab classes in order to achieve the leaning outcomes.

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: ENVR11012 Applications of Environmental Science Or CHEM11041 Chemistry for the Life Sciences 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 - 2017

Distance

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 Residential School Timetable.

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

1. Written Assessment

Weighting: 25%

2. Practical and Written Assessment

Weighting: 25% 3. **Examination** Weighting: 50%

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 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 Feedback in lab sessions.

Feedback

Some students were not familiar with chemistry equipment and glassware.

Recommendation

More information will be provided before the residential school on basic chemical equipment and glassware for students without a strong background in chemistry.

Action

Increased attention was paid to chemistry glassware and chemicals.

Feedback from Moodle course evaluation.

Students would like to see a stronger industry focus in the course.

Although the course is based around the requirements of industry, consultation with industry will be continued to see if changes need to be made.

There was an increase in the inclusion of industry related material within the unit. Additional attention was also given to relating information to its use in industry.

Feedback from Moodle course evaluation.

Feedback

Students found the residential school a valuable learning experience.

Recommendation

The residential school will continue to be a part of the course.

The residential school was continued.

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





Introductory





Professional



Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes									
		1		2	3		4	5		6
1 - Written Assessment - 25%					•		•	•		•
2 - Practical and Written Assessment - 25%		•		•	• •		•	•		
3 - Examination - 50%		•		•	•		•			
Alignment of Craduate Attributes to Learn	sina Out	con	205							
Alignment of Graduate Attributes to Learr Graduate Attributes	iiig Out	COH	ies		Lear	ninc	ı Out	come	es	
					1	2	3	4	5	6
1 - Communication					•	•	•	•	•	
2 - Problem Solving						•	•	•	•	•
3 - Critical Thinking					T	•	•	•	•	•
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										
gnment of Assessment Tasks to Graduate Attributes Graduate Attributes										
Assessment rusks	1	2	3	4	5	6	7	8	9	10
1 - Written Assessment - 25%	•	•	•	•	•	•			-	
2 - Practical and Written Assessment - 25%		•	•	•		•		•		
3 - Examination - 50%		•	•							

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)

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

Larelle Fabbro Unit Coordinator l.fabbro@cqu.edu.au

Schedule

Week 1 - 06 Mar 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Hydrological cycle, water quality guidelines and environmental values	Study Guide Section 1	
Week 2 - 13 Mar 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Chemistry of water	Study Guide Section 2	
Week 3 - 20 Mar 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Water pollutants and their sources	Study Guide Section 3	
Week 4 - 27 Mar 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Project design, monitoring,quality assurance and reporting	Study Guide Section 4	
Week 5 - 03 Apr 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Microbiology of water	Study Guide Section 5	
Vacation Week - 10 Apr 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Week 6 - 17 Apr 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Microbiology of water (cont.) and Microbiological Standards	Study Guide Section 5 & 6	Water Monitoring Plan Due: Week 6 Monday (17 Apr 2017) 11:45 pm AEST

Week 7 - 24 Apr 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Water and wastewater treatment	Study Guide Section 7	
Week 8 - 01 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Integrated habitat assessment	Study Guide Section 8	
Week 9 - 08 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic
		Residential School 10 th - 12 th May
Week 10 - 15 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Management of water resources	Study Guide Section 9	
Week 11 - 22 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Catchment management	Study Guide Section 10	
Week 12 - 29 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Review and exam preparation		Residential School Report Due: Week 12 Monday (29 May 2017) 11:45 pm AEST
Review/Exam Week - 05 Jun 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Exam Week - 12 Jun 2017		
Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 Water Monitoring 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. Briefly describe how you would ensure your samples are representative and accurate, and mention any health and safety issues that may be associated with the specific waterway.

Maximum 2000 words

Assessment Due Date

Week 6 Monday (17 Apr 2017) 11:45 pm AEST

Return Date to Students

Monday (1 May 2017)

Weighting

25%

Minimum mark or grade

40%

Assessment Criteria

Discussion of the environmental values and water quality issues (30%) Appropriate choice of parameters and analyses (30%)

Appropriate quality control and safety procedures (25%)

Clear writing style in correct English, accurate referencing, appropriate length and format (15%)

Referencing Style

• Harvard (author-date)

Submission

Online

Submission Instructions

Submit as .rtf, .doc or .docx files only

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

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Team Work
- Information Technology Competence

2 Residential School Report

Assessment Type

Practical and Written Assessment

Task Description

Students are required to complete a report sheet based on the residential school activities.

Assessment Due Date

Week 12 Monday (29 May 2017) 11:45 pm AEST

Return Date to Students

Monday (12 June 2017)

Weighting

25%

Minimum mark or grade

40%

Assessment Criteria

Assessment will be marked on the completion and correctness of the answers in the report sheet

Referencing Style

• Harvard (author-date)

Submission

Online

Submission Instructions

Students need to upload an electronic copy of the workbook and associated 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

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy
- Information Technology Competence
- Ethical practice

Examination

Outline

Complete an invigilated examination.

Date

During the examination period at a CQUniversity examination centre.

Weighting

50%

Length

180 minutes

Minimum mark or grade

40%

Exam Conditions

Closed Book.

Materials

No calculators permitted

Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments).

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?



Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



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