

Profile information current as at 29/04/2024 08:16 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.

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 - 2018

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 <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

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 Course feedback

Feedback

Using the residential school to better relate the practical work to the unit material and water quality.

Recommendation

Increase the time spent in pre-laboratory explanations and allow the students more hands-on water quality testing. It is suggested that the atomic absorption analyser is housed in a dry space to allow execution of experiments.

Feedback from Course feedback.

Feedback

Include pictures on the Powerpoint slides for the course to make it more interesting.

Recommendation

Photographs should be added to the lecture slides where relevant.

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

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-	_	N/A Level	•	Introductory Level	•	Intermediate Level	•	Graduate Level	0	Professional Level	0	Advanced Level

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 Graduate Attributes to Learning Outcomes

Graduate Attributes					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												
Alignment of Assessment Tasks to Graduate Attributes												
Assessment Tasks Graduate Attributes												
	1	2	3	4	5	6	7	8	9	10		
	•		•	•	•	•						
1 - Written Assessment - 25%			<u> </u>				_					
1 - Written Assessment - 25% 2 - Practical and Written Assessment - 25%	•	•	•	•		٠		•				

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

Judith Wake Unit Coordinator j.wake@cqu.edu.au

Schedule

Week 1 - 05 Mar 2018 Module/Topic Chapter Events and Submission Hydrological cycle, water quality guidelines and environmental values Study Guide Section 1 Week 2 - 12 Mar 2018 Module/Topic Chapter Events and Submissions Chemistry of water Study Guide Section 2	s/Topic
Hydrological cycle, water quality guidelines and environmental values Week 2 - 12 Mar 2018 Module/Topic Chapter Study Guide Section 1 Events and Submissions	s/Topic
guidelines and environmental values Week 2 - 12 Mar 2018 Module/Topic Chapter Events and Submissions	
Module/Topic Chapter Events and Submissions	
Chemistry of water Study Guide Section 2	s/Topic
Chemistry of water Study Guide Section 2	
Week 3 - 19 Mar 2018	
Module/Topic Chapter Events and Submissions	s/Topic
Water pollutants and their sources Study Guide Section 3	
Week 4 - 26 Mar 2018	
Module/Topic Chapter Events and Submissions	s/Topic
Microbiology of water Study Guide Section 4	
Week 5 - 02 Apr 2018	
Module/Topic Chapter Events and Submissions	s/Topic
Water and wastewater treatment Study Guide Section 5	
Vacation Week - 09 Apr 2018	
Module/Topic Chapter Events and Submissions	5/Topic
Week 6 - 16 Apr 2018	
Module/Topic Chapter Events and Submissions	s/Topic
Project design and monitoring Study Guide Section 6 Water Monitoring Plan I Monday (16 Apr 2018) 11:4	
Week 7 - 23 Apr 2018	
Module/Topic Chapter Events and Submission	s/Topic
Water quality standards, quality assurance and quality control Study Guide Section 7	
Week 8 - 30 Apr 2018	
Module/Topic Chapter Events and Submissions Residential School 2nd - 4t	-
Week 9 - 07 May 2018	
Module/Topic Chapter Events and Submissions	s/Topic
Integrated habitat assessment Study Guide Section 8	
Week 10 - 14 May 2018	
Module/Topic Chapter Events and Submissions	s/Topic
Management of water resources Study Guide Section 9	
Week 11 - 21 May 2018	
Module/Topic Chapter Events and Submissions	s/Topic

Catchment management	Study Guide Section 10	Residential School Practical Exercise and Written Report Due: Week 11 Monday (21 May 2018) 11:45 pm AEST						
Week 12 - 28 May 2018								
Module/Topic	Chapter	Events and Submissions/Topic						
Review and exam preparation								
Review/Exam Week - 04 Jun 2018								
Module/Topic	Chapter	Events and Submissions/Topic						
Exam Week - 11 Jun 2018								
Module/Topic	Chapter	Events and Submissions/Topic						

Term Specific Information

There is a compulsory residential school held in Rockhampton on 2nd to 4th May.

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. Mention any health and safety issues that may be associated with the specific waterway.

Maximum 2000 words

Assessment Due Date

Week 6 Monday (16 Apr 2018) 11:45 pm AEST

Return Date to Students

Week 8 Monday (30 Apr 2018)

Weighting

25%

Minimum mark or grade

40%

Assessment Criteria

Discussion of the environmental values and water quality issues (35%)

Appropriate choice of parameters and analyses (35%)

Appropriate safety procedures (15%)

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

Referencing Style

• Harvard (author-date)

Submission

Online

Submission Instructions

Submit as .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 Practical Exercise and Written Report

Assessment Type

Practical and Written Assessment

Task Description

There will be a practical and written component to this assessment.

Practical Exercise (5%)

You are required to calibrate water quality meters and correctly collect water samples. You will be given the chance to repeat this activity three times to perform it successfully.

Written Report (20%)

You will be required to complete a report sheet based on the residential school activities. A template outling the information required and the questions that need to be answered will be provided on the moodle site.

Assessment Due Date

Week 11 Monday (21 May 2018) 11:45 pm AEST

Return Date to Students

Review/Exam Week Monday (4 June 2018)

Weighting

25%

Minimum mark or grade

40%

Assessment Criteria

Practical exercise will be assessed on the ability to perform laboratory and field tasks. Report sheet will be assessed on the completeness and correctness of the answers.

Referencing Style

• Harvard (author-date)

Submission

Online

Submission Instructions

Students will be required to perform practical exercise during the residential school and will need to upload an electronic copy of the report sheet 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

Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments). No calculators permitted

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