

Profile information current as at 14/12/2025 06:34 am

All details in this unit profile for ECON19031 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

Resource use and environmental issues are difficult for society to evaluate and balance. You will be introduced to some of the most important economic concepts that relate to environmental issues, and provide a framework for evaluating policy choices. Among the topics you will cover are project and policy assessment tools, environmental valuation and accounting methods, and the efficiency of different institutions and mechanisms that guide environmental choices.

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: Minimum of 24 Units

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 Procedure (Higher Education Coursework)</u>.

Offerings For Term 2 - 2021

Online

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

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: 30%

2. Written Assessment

Weighting: 30%

3. Written Assessment

Weighting: 40%

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 Student Evaluation Survey

Feedback

'This unit has completely changed the way I look at and address issues in the Environment. This unit has armed me with extremely important information, resources, and strategies to truly make a difference. Any student studying environmental science or wanting to work in conservation, land, and water management or work within ecosystems or environments needs to do this unit'.

Recommendation

A primary goal of this Unit is to equip students to apply the contents of the Unit to real-world environmental economics problems. The Unit will continue to embed the applied and policy-relevant contents in the delivery.

Feedback from Student Evaluation Survey

Feedback

'I think I could have benefited from a 'Guide to assessment 1'. Similar to what was given for assessment 2 & 3'.

Recommendation

Provide a Guide to Assessment 1 similar to the ones provided for other written assessments.

Unit Learning Outcomes

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

- 1. identify how market mechanisms work to allocate resources, and how markets and ecological mechanisms can be viewed in a systems approach
- 2. demonstrate that many environmental problems arise because of market failure and government failure problems, leading to inadequate signalling and incentive mechanisms used in society to allocate resources
- 3. identify different approaches to evaluating environmental issues
- 4. understand how valuation of environmental impacts can allow more accurate assessment of environmental issues
- 5. develop an understanding of environmental accounting and impact assessment methodologies
- 6. understand how there are a variety of ways of viewing and using sustainable development concepts
- 7. develop an understanding of the potential for market-based instruments to help in addressing environmental problems.

Alignment of Learning Outcomes, Assessment and Graduate Attributes

| N/A Level Introductory Level Graduate Level Advanced Level Advanced | | | | | | | |
|---|-------------------|---|---|---|---|---|---|
| Alignment of Assessment Tasks to Learning Outcomes | | | | | | | |
| Assessment Tasks | Learning Outcomes | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 - Written Assessment - 30% | • | • | • | • | | | |
| 2 - Written Assessment - 30% | | | • | • | • | • | • |
| 3 - Written Assessment - 40% | | • | | | | • | • |

| Graduate Attributes | | | L | Learning Outcomes | | | | | | | | |
|---|-----------------|---------------------|----|-------------------|---|---|---|---|---|----|--|--|
| | | | 1 | L | 2 | 3 | 4 | 5 | 6 | 7 | | |
| 1 - Communication | | | K | • | • | • | • | • | • | • | | |
| 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 Cult | ures | | | | | | | | | | | |
| lignment of Assessment Tasks to 0 | Graduate Attril | oute | es | | | | | | | | | |
| Assessment Tasks | | Graduate Attributes | | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | | |
| 1 - Written Assessment - 30% | • | • | • | • | | | | | | | | |
| | • | • | • | • | | | | • | | | | |
| 2 - Written Assessment - 30% | | | | | | | | | | | | |

Textbooks and Resources

Textbooks

ECON19031

Supplementary

Environmental & Natural Resource Economics

11th edition (International Edition) (2018) Authors: Tietenberg, T. and Lewis, L.

Routledge Taylor & Francis

New York , USA ISBN: 9781138632301 Binding: Paperback

Additional Textbook Information

If you prefer to study with a paper text, you can purchase one at the CQUni Bookshop here: http://bookshop.cqu.edu.au (search on the Unit code).

View textbooks at the CQUniversity Bookshop

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- PC, Laptop, tablet or hand-held device with a camera and audio

Referencing Style

All submissions for this unit must use the referencing style: <u>American Psychological Association 7th Edition (APA 7th edition)</u>

For further information, see the Assessment Tasks.

Teaching Contacts

Jayanath Ananda Unit Coordinator

j.ananda@cqu.edu.au

Schedule

| Week 1 - 12 Jul 2021 | | |
|--|---------------------------------------|-------------------------------------|
| Module/Topic | Chapter | Events and Submissions/Topic |
| The Economic Approach | Tietenberg and Lewis Chapters 1 and 2 | |
| Week 2 - 19 Jul 2021 | | |
| Module/Topic | Chapter | Events and Submissions/Topic |
| Understanding why environmental problems occur | Tietenberg and Lewis Chapter 2 | |
| Week 3 - 26 Jul 2021 | | |
| Module/Topic | Chapter | Events and Submissions/Topic |
| Valuing the environment | Tietenberg and Lewis Chapter 4 | |
| | | |

| Week 4 - 02 Aug 2021 | | |
|---|---|---|
| Module/Topic | Chapter | Events and Submissions/Topic |
| Evaluating tradeoffs: Cost Benefit Analysis | Tietenberg and Lewis Chapter 3 | |
| Week 5 - 09 Aug 2021 | | |
| Module/Topic | Chapter | Events and Submissions/Topic |
| Dynamic efficiency and Sustainable Development | Tietenberg and Lewis Chapters 5 and 20 | |
| Vacation Week - 16 Aug 2021 | | |
| Module/Topic | Chapter | Events and Submissions/Topic |
| | | Assignment 1 Due: Vacation Week Monday (16 Aug 2021) 11:45 pm AEST |
| Week 6 - 23 Aug 2021 | | |
| Module/Topic | Chapter | Events and Submissions/Topic |
| Depletable Resource Allocation over longer term horizons | Tietenberg and Lewis Chapter 6 | |
| Week 7 - 30 Aug 2021 | | |
| Module/Topic | Chapter | Events and Submissions/Topic |
| Energy: the transition from depletable to renewable resources | Tietenberg and Lewis Chapter 7 | |
| Week 8 - 06 Sep 2021 | | |
| Module/Topic | Chapter | Events and Submissions/Topic |
| Forests: Storable, renewable resources | Tietenberg and Lewis Chapter 11 | |
| Week 9 - 13 Sep 2021 | | |
| Module/Topic | Chapter | Events and Submissions/Topic |
| Common Pool Resources and Fisheries | Tietenberg and Lewis Chapter 12 | Assignment 2 Due: Week 9 Monday (13 Sept 2021) 11:45 pm AEST |
| Week 10 - 20 Sep 2021 | | |
| Module/Topic | Chapter | Events and Submissions/Topic |
| Economics of Pollution Control and Climate Change | Tietenberg and Lewis Chapters 14 and 16 | |
| Week 11 - 27 Sep 2021 | | |
| Module/Topic | Chapter | Events and Submissions/Topic |
| Water Pollution | Tietenberg and Lewis Chapter 18 | |
| Week 12 - 04 Oct 2021 | | |
| Module/Topic | Chapter | Events and Submissions/Topic |
| Unit revision | | |
| Review Week - 11 Oct 2021 | | |
| Module/Topic | Chapter | Events and Submissions/Topic |
| Review Period | | Assignment 3 Due: Review/Exam Week Wednesday (13 Oct 2021) 11:45 pm AEST |
| Exam Week - 18 Oct 2021 | | |
| Module/Topic | Chapter | Events and Submissions/Topic |

Term Specific Information

Note that Tietenberg et al. text is only supplementary.

Assessment Tasks

1 Assignment 1

Assessment Type

Written Assessment

Task Description

Written Assessment 1 covers general economic concepts and environmental valuation techniques and requires short-answer responses.

As a guideline, the total length of your response should be around 1000 words.

Diagrams should be used to illustrate specific aspects of the response. Please ensure that you correctly cite/reference all sources of diagrams used, unless they are original and composed by you. This is an important aspect of academic integrity. It is also important that you familiarize yourself with the Plagiarism policy. The University Academic Misconduct Procedure Policy is available from the CQUni website.

Further details of the Assessment are available on the Moodle page for the unit.

Late submissions will incur penalties (5% of the total assessment marks for each day the work is overdue). All assignment extension requests must be forwarded through the Moodle Assignment Extension portal with verifiable supporting documents.

Assessment Due Date

Vacation Week Monday (16 Aug 2021) 11:45 pm AEST

Penalties apply to late submissions without an approved extension.

Return Date to Students

Week 7 Monday (30 Aug 2021)

Weighting

30%

Assessment Criteria

Assessment Criteria for Assignment 1 are as follows:

- (a) Demonstrate a clear understanding and purpose of economic theory and models.
- (b) Application of economic theory and models to given real-life and hypothetical scenarios.
- (c) Demonstrate a clear understanding of the selected valuation technique and its application.
- (d) A critical review of the key strengths and weaknesses of the relevant valuation technique.

Referencing Style

• American Psychological Association 7th Edition (APA 7th edition)

Submission

Online

Learning Outcomes Assessed

- identify how market mechanisms work to allocate resources, and how markets and ecological mechanisms can be viewed in a systems approach
- demonstrate that many environmental problems arise because of market failure and government failure problems, leading to inadequate signalling and incentive mechanisms used in society to allocate resources
- identify different approaches to evaluating environmental issues
- understand how valuation of environmental impacts can allow more accurate assessment of environmental issues

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

2 Assignment 2

Assessment Type

Written Assessment

Task Description

The focus of this assignment is to test your understanding of the issues around renewable and non-renewable resources, and the issues in dealing with long time horizons. In the assignment, you should choose a major environmental issue in Australia that can be classified as a **renewable** or **non-renewable resource management issue**. Issues may be drawn from a number of areas, including Energy, Minerals, and Forestry. To complete the assignment, you should:

- 1. Provide a brief overview of the issue
- 2. Identify issues with the rate of resource allocation and the time horizon issues
- 3. Explain how marginal benefits and costs of extraction or harvest can change over time
- 4. Identify the appropriate economic analysis to identify optimal rates of harvest or extraction.
- 5. Identify the implications of extraction or harvest rates in terms of sustainable development.
- 6. Review available government policies to deal with these kinds of issues, and identify preferred options to address the issue of interest.

This assignment is to be written as a single essay and include diagrams and references. You should aim to develop a logical framework for your arguments in a structure that allows you to address the key questions posed.

The choice of a particular environmental issue is yours as a way of bringing some interest to the topic. Do not spend too much time describing the case but use it to demonstrate the economic principles that you have learned in the Unit.

There are many possible types of environmental issues that you might focus on. Try to parrow it down in some way to a

There are many possible types of environmental issues that you might focus on. Try to narrow it down in some way to a particular case study or development proposal so that it is easier to apply different frameworks to the issue of interest. The chosen environmental issue can be at any scale (i.e. local, regional, national or international), but remember that smaller, less complex, and well-defined problems are generally easier to analyse than larger multi-faceted issues. It is important to describe what type of economic principles and analysis can be applied to evaluate the problem so that it is clear how to conceptualise the issues in economic terms.

Other details to note are:

- As a guideline, the length of the main body of your essay should be around 2000 words or so, excluding references.
- Diagrams should be used to illustrate specific aspects and please ensure that you correctly cite/reference all sources including diagrams used since this is an important aspect of academic integrity.
- The list of references should form the last page or two, at the end of the assessment. The APA Referencing style should be used.
- Further instructions on assignment submission, formatting, referencing, etc. are provided on the Moodle site for this unit.

Assessment Due Date

Week 9 Monday (13 Sept 2021) 11:45 pm AEST

Return Date to Students

Week 11 Monday (27 Sept 2021)

Penalties apply to late submissions without an approved extension.

Weighting

30%

Assessment Criteria

Assessment Criteria for Assignment 2 are as follows:

- a. Selection and description of a suitable case study issue relevant to the assignment topic
- b. Demonstrate a clear understanding and purpose of the economic concepts involved
- c. Demonstrate knowledge about application of economic analysis
- d. Critical evaluation of the case study issues and policy mechanisms
- e. Standard of writing, explanation and referencing.

Referencing Style

American Psychological Association 7th Edition (APA 7th edition)

Submission

Online

Learning Outcomes Assessed

- identify different approaches to evaluating environmental issues
- understand how valuation of environmental impacts can allow more accurate assessment of environmental issues
- · develop an understanding of environmental accounting and impact assessment methodologies
- understand how there are a variety of ways of viewing and using sustainable development concepts
- develop an understanding of the potential for market-based instruments to help in addressing environmental problems.

Graduate Attributes

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

3 Assignment 3

Assessment Type

Written Assessment

Task Description

The focus of this assignment is to identify an environmental issue that involves pollution or an open-access resource and use it as a case study to explain how the problem can be evaluated using economic analysis and to identify appropriate policy mechanisms. The case study approach means that students can choose a major environmental issue in Australia that can be classified as a **common pool resource problem** or a **pollution problem**. Common pool problems are an open-access or tragedy of the commons type of problem, while pollution problems are examples of negative externalities. Some environmental problems, such as air pollution, exhibit both characteristics and are sometimes called 'wicked' problems because of the difficulties of addressing them.

Students need to complete the following tasks for their case study:

- 1. Provide a brief overview of the issue.
- 2. Explain in economic terms why the problem exists, and who bears the costs.
- 3. Identify the appropriate economic analysis that can be applied to identify more sustainable or efficient resource
- 4. Review economic mechanisms that are available to address these types of environmental problems.
- 5. Critically review current government policies that are in place and the extent to which they are consistent with economic mechanisms.

This assignment is to be written as a single essay and should include references. You should aim to develop a logical framework for your arguments in a structure that allows you to address the key questions posed.

The choice of a particular case study is yours as a way of bringing some interest to the topic. Do not spend too much time on the descriptive aspects of the case study but use it to demonstrate the economic principles that you have learned in this Unit.

There are many possible types of environmental issues that you might focus on. Try to narrow it down in some way to a particular case study or development proposal so that it is easier to apply different frameworks to the issue of interest. The case study can be at any scale (i.e. local, regional, national or international), but remember that smaller, less complex, and specific problems are generally easier to analyse than larger multi-faceted issues.

It is important to describe what type of economic principles and analysis can be applied to evaluate the problem so that it is clear how to conceptualise the issues in economic terms.

Other details to note are:

- As a guideline, the total length of the essay should be around 3000 words or so, excluding references.
- Diagrams should be used to illustrate specific aspects and please ensure that you correctly cite/reference all sources including diagrams used since this is an important aspect of academic integrity.
- The list of references should form the last page or two, at the end of the assessment. The APA Referencing style should be used.
- Further instructions on assignment submission, formatting, referencing, etc. are provided on the Moodle site for this unit.

Assessment Due Date

Review/Exam Week Wednesday (13 Oct 2021) 11:45 pm AEST

Penalties apply to late submissions without an approved extension.

Return Date to Students

Marks and feedback will be released after the grade certification.

Weighting

40%

Assessment Criteria

Assessment Criteria for Assignment 3 are as follows:

- a. Selection and description of a suitable case study issue relevant to the assignment topic.
- b. Demonstrate a clear understanding and purpose of the economic concepts involved.
- c. Demonstrate knowledge about the application of economic analysis.
- d. Critical evaluation of the case study issues and policy mechanisms.
- e. Standard of writing, explanation and referencing.

Referencing Style

• American Psychological Association 7th Edition (APA 7th edition)

Submission

Online

Learning Outcomes Assessed

- demonstrate that many environmental problems arise because of market failure and government failure problems, leading to inadequate signalling and incentive mechanisms used in society to allocate resources
- understand how there are a variety of ways of viewing and using sustainable development concepts
- develop an understanding of the potential for market-based instruments to help in addressing environmental problems.

Graduate Attributes

- Communication
- Problem Solving
- Critical Thinking
- Information Literacy

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