

# ENS300 Environmental Economics

**School:** School of Science, Technology and Engineering

2026 | Trimester 1

UniSC Sunshine Coast  
UniSC Moreton Bay

**BLENDED  
LEARNING**

Most of your course is on campus but you may be able to do some components of this course online.

*Please go to [unisc.edu.au](http://unisc.edu.au) for up to date information on the teaching sessions and campuses where this course is usually offered.*

## 1. What is this course about?

### 1.1. Description

This course provides an overview of the principles of environmental economics and their application in policies, planning, and resource management. It integrates environmental management and economic theory within a framework of sustainable development. You'll learn fundamental economic concepts and then apply them in environmental valuation, cost-benefit, and climate mitigation contexts. Who knew that market failure could be so much fun? Carbon tax or emissions trading? You'll know.

### 1.2. How will this course be delivered?

ACTIVITY	HOURS	BEGINNING WEEK	FREQUENCY
<b>BLENDED LEARNING</b>			
<b>Seminar</b> – One hour face to face seminar occurs three times per trimester	1hr	Week 4	3 times
<b>Tutorial/Workshop 1</b> – Face-to-face tutorial with interaction	2hrs	Week 1	12 times
<b>Learning materials</b> – Instructional videos and curated learning resources for student review prior to class	1hr	Week 1	12 times

### 1.3. Course Topics

#### Environmental economics fundamentals

- National income and environmental accounting; Utility and consumer demand; Production, supply, and costs; Market dynamics supply and demand interactions; Externalities and market failure.
- Applications: manufacturing, agriculture, transportation, recycling, electricity production and use.

#### Environmental valuation

- Direct-use, indirect-use, and non-use values; Valuation methods (market based, contingent valuation, travel cost, hedonic pricing, restoration and replacement cost, benefit transfer).
- Applications: property values, tourism and recreation, ecosystem services, conservation

#### Cost benefit analysis

- Identifying alternatives and determining timeframes, monetising costs and benefits, applying discount rates, computing net present values, benefit-cost ratios, payback periods and internal rates of return, and performing sensitivity analysis.
- Applications: infrastructure, environmental offsets, renewable energy

#### Climate change mitigation

- Carbon abatement cost curves, emission taxes, cap and trade schemes, subsidies, carbon offsets and carbon neutrality, carbon market dynamics.
- Applications: industry, carbon market

## 2. What level is this course?

300 Level (Graduate)

Demonstrating coherence and breadth or depth of knowledge and skills. Independent application of knowledge and skills in unfamiliar contexts. Meeting professional requirements and AQF descriptors for the degree. May require pre-requisites where discipline specific introductory or developing knowledge or skills is necessary. Normally undertaken in the third or fourth full-time study year of an undergraduate program.

## 3. What is the unit value of this course?

12 units

## 4. How does this course contribute to my learning?

COURSE LEARNING OUTCOMES	GRADUATE QUALITIES
On successful completion of this course, you should be able to...	Completing these tasks successfully will contribute to you becoming...
<b>1</b> Demonstrate knowledge of environmental economics by appraising situational information, recalling concepts, applying methods, identifying limitations, and formulating solutions to specified problems.	Knowledgeable Creative and critical thinker
<b>2</b> Compile data and interpret and synthesise relevant literature through a process of scholarly research to support and inform your analysis and conclusions.	Empowered Engaged Sustainability-focussed
<b>3</b> Communicate complex information in a written format by combining figures, tables, explanation, and formatting to produce a professional product.	Knowledgeable Empowered

## 5. Am I eligible to enrol in this course?

Refer to the [UniSC Glossary of terms](#) for definitions of “pre-requisites, co-requisites and anti-requisites”.

### 5.1. Pre-requisites

Not applicable

### 5.2. Co-requisites

Not applicable

### 5.3. Anti-requisites

ENS700

### 5.4. Specific assumed prior knowledge and skills (where applicable)

This course applies skills and knowledge you have acquired during your first and second years in new contexts relating to the economic dimensions of sustainability, environmental science, environmental management, urban design and town planning, engineering and business. While it does not assume prior knowledge of economics, and therefore does not have any prerequisites, the course contains graduate level assessment and is normally taken in the third year of study. You will be expected to have the ability to search databases, conduct research independently, communicate effectively, work collaboratively, manage your time effectively and contribute to finding solutions to pressing environment and development issues.

### 5.5. Microcredential Information

Not applicable

## 6. How am I going to be assessed?

### 6.1. Grading Scale

Standard Grading (GRD)

High Distinction (HD), Distinction (DN), Credit (CR), Pass (PS), Fail (FL).

### 6.2. Details of early feedback on progress

Feedback will be provided to help you progress from your current practice to more effectively achieve the learning goals of the course. The format of feedback may include: verbal comments to individuals or to the class about academic progress relevant to the assessment; discussion of exemplars; ongoing dialogue with learners to help develop the process of self-regulation and reflection; comments on presentations; and/or written feedback on drafts or outlines of a task.

### 6.3. Assessment tasks

DELIVERY MODE	TASK NO.	ASSESSMENT PRODUCT	INDIVIDUAL OR GROUP	WEIGHTING %	WHAT IS THE DURATION / LENGTH?	WHEN SHOULD I SUBMIT?	WHERE SHOULD I SUBMIT IT?
All	1	Portfolio	Individual	25%	1200 words	Week 5	In Class
All	2	Oral and Written Piece	Individual	35%	1500 words and five-minute meeting style presentation with question and answer session	Week 9	Online Submission
All	3	Report	Individual	40%	2000 words	Exam Period	Online Submission

**All - Assessment Task 1:** Environmental economics fundamentals portfolio

<b>GOAL:</b>	This task will develop your knowledge of fundamental environmental economics concepts and their application to issues such as manufacturing, agriculture, transportation, recycling, and electricity production and use.													
<b>PRODUCT:</b>	Portfolio													
<b>AUTHORSHIP STATEMENT:</b>														
<b>FORMAT:</b>	Portfolio of worksheet responses to short analysis tasks applying environmental economic concepts as explained in the lectures and practiced in the workshops													
<b>CRITERIA:</b>	<table border="1"> <thead> <tr> <th>No.</th> <th></th> <th>Learning Outcome assessed</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Analysis, problem solving, and the application of economic concepts and methods</td> <td>1</td> </tr> <tr> <td>2</td> <td>Incorporation and quality of graphs, tables, charts and figures</td> <td>3</td> </tr> <tr> <td>3</td> <td>Formatting, written expression (spelling, syntax, grammar, diction), and structure (logical sequence, use of sections and headings, progression of analysis)</td> <td>3</td> </tr> </tbody> </table>	No.		Learning Outcome assessed	1	Analysis, problem solving, and the application of economic concepts and methods	1	2	Incorporation and quality of graphs, tables, charts and figures	3	3	Formatting, written expression (spelling, syntax, grammar, diction), and structure (logical sequence, use of sections and headings, progression of analysis)	3	
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<b>GENERIC SKILLS:</b>	Communication, Problem solving, Organisation, Applying technologies													

**All - Assessment Task 2:** Environmental valuation case study

<b>GOAL:</b>	This task will develop your knowledge of environmental valuation methods through the application of specific valuation methods to a case study location presented as a project proposal. You will then present your proposal in a short meeting-style format with the tutor.																
<b>PRODUCT:</b>	Oral and Written Piece																
<b>AUTHORSHIP STATEMENT:</b>																	
<b>FORMAT:</b>	A technical report containing figures, tables, and analysis and in-class individual meeting-style presentation																
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<b>GENERIC SKILLS:</b>	Communication, Problem solving, Information literacy																

### All - Assessment Task 3: Cost benefit and carbon neutral report

<b>GOAL:</b>	This task will develop your knowledge of carbon abatement cost curves and institution-level responses to climate mitigation policies (such as carbon taxes and emissions trading) through the application of key concepts and methods including cost benefit analysis and carbon neutral certification.																
<b>PRODUCT:</b>	Report																
<b>AUTHORSHIP STATEMENT:</b>																	
<b>FORMAT:</b>	A technical report containing figures, tables, and analysis																
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<b>GENERIC SKILLS:</b>	Communication, Problem solving, Applying technologies, Information literacy																

## 7. Directed study hours

A 12-unit course will have total of 150 learning hours which will include directed study hours (including online if required), self-directed learning and completion of assessable tasks. Student workload is calculated at 12.5 learning hours per one unit.

## 8. What resources do I need to undertake this course?

Please note: Course information, including specific information of recommended readings, learning activities, resources, weekly readings, etc. are available on the course Canvas site– Please log in as soon as possible.

### 8.1. Prescribed text(s) or course reader

There are no required/recommended resources for this course.

### 8.2. Specific requirements

Nil

## 9. How are risks managed in this course?

Health and safety risks for this course have been assessed as low. It is your responsibility to review course material, search online, discuss with lecturers and peers and understand the health and safety risks associated with your specific course of study and to familiarise yourself with the University's general health and safety principles by reviewing the [online induction training for students](#), and following the instructions of the University staff.

## 10. What administrative information is relevant to this course?

### 10.1. Assessment: Academic Integrity

Academic integrity is the ethical standard of university participation. It ensures that students graduate as a result of proving they are competent in their discipline. This is integral in maintaining the value of academic qualifications. Each industry has expectations and standards of the skills and knowledge within that discipline and these are reflected in assessment.

Academic integrity means that you do not engage in any activity that is considered to be academic fraud; including plagiarism, collusion or outsourcing any part of any assessment item to any other person. You are expected to be honest and ethical by completing all work yourself and indicating in your work which ideas and information were developed by you and which were taken from others. You cannot provide your assessment work to others. You are also expected to provide evidence of wide and critical reading, usually by using appropriate academic references.

In order to minimise incidents of academic fraud, this course may require that some of its assessment tasks, when submitted to Canvas, are electronically checked through Turnitin. This software allows for text comparisons to be made between your submitted assessment item and all other work to which Turnitin has access.

## 10.2. Assessment: Additional Requirements

### Eligibility for Supplementary Assessment

Your eligibility for supplementary assessment in a course is dependent of the following conditions applying:

- (a) The final mark is in the percentage range 47% to 49.4%; and
- (b) The course is graded using the Standard Grading scale

Eligibility for Supplementary Assessment Your eligibility for supplementary assessment in a course is dependent of the following conditions applying: The final mark is in the percentage range 47% to 49.4% The course is graded using the Standard Grading scale You have not failed an assessment task in the course due to academic misconduct

## 10.3. Assessment: Submission penalties

Late submissions may be penalised up to and including the following maximum percentage of the assessment task's identified value, with weekdays and weekends included in the calculation of days late:

- (a) One day: deduct 5%;
- (b) Two days: deduct 10%;
- (c) Three days: deduct 20%;
- (d) Four days: deduct 40%;
- (e) Five days: deduct 60%;
- (f) Six days: deduct 80%;
- (g) Seven days: A result of zero is awarded for the assessment task.

The following penalties will apply for a late submission for an online examination:

Less than 15 minutes: No penalty

From 15 minutes to 30 minutes: 20% penalty

More than 30 minutes: 100% penalty

## 10.4. Links to relevant University policy and procedures

For more information on Academic Learning & Teaching categories including:

- Assessment: Courses and Coursework Programs
- Review of Assessment and Final Grades
- Supplementary Assessment
- Central Examinations
- Deferred Examinations
- Student Conduct
- Students with a Disability

For more information, visit <https://www.usc.edu.au/explore/policies-and-procedures#academic-learning-and-teaching>

## 10.5. Student Charter

UniSC is committed to excellence in teaching, research and engagement in an environment that is inclusive, inspiring, safe and respectful. The [Student Charter](#) sets out what students can expect from the University, and what in turn is expected of students, to achieve these outcomes.

## 10.6. General Enquiries

For course-specific questions, contact your teaching staff or Course Coordinator.

For other enquiries or to access support, please contact Student Central:

- [UniSC Student Central](#)
- [UniSC Adelaide Student Central](#)