



ENV 118

Environmental Management for a Changing World

S2 External 2019

Dept of Environmental Sciences

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Disclaimer

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General Information

Unit convenor and teaching staff

Convenor

Sandie Suchet-Pearson

sandie.suchet@mq.edu.au

Department of Geography and Planning

Email for an appointment

Senior Lecturer

Emilie Ens

emilie.ens@mq.edu.au

Department of Environmental Sciences

Email for an appointment

Senior Lecturer

Katherine Dafforn

katherine.dafforn@mq.edu.au

Department of Environmental Sciences

Email for an appointment

Credit points

3

Prerequisites

Corequisites

Co-badged status

Unit description

This unit explores human interactions with the environment through the lens of sustainability and connectivity; concepts that are central to environmental management in our ever-changing world. It will help students to understand their environment from social and scientific viewpoints and will demonstrate how an interdisciplinary approach to environmental management is integral to human and ecosystem health. Current, real-world examples from terrestrial and marine ecosystems, social systems, atmospheric and climate systems, and their dynamic interplay encourage critical thinking about environmental management issues in Australia and globally. This unit is designed for students who care about the environment and the world's future and will lay firm foundations for a range of environmental and geographical studies.

Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

Learning Outcomes

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

Recognise and define the core concepts of environmental management, including society, environment, sustainability and connectivity.

Compare and discuss the core concepts of environmental management in relation to major environmental issues and the complex relationships between them.

Interpret the core concepts of environmental management and provide examples of the ways that population, environment and resources interact to affect human societies and ecosystems at several scales.

Utilise maps, graphs, statistics and text to construct, analyse and interpret information about key relationships in environmental and human systems.

Explain connections between resource use, environmental condition and the social, political and economic context of particular situations.

Write for a target audience and critically read, think about, interpret and evaluate environmental and social data.

Demonstrate foundational learning skills including active engagement in the learning process

General Assessment Information

Assessment Criteria

Assessment at Macquarie is standards-based, as outlined in the [Assessment Policy](#). This means that your work in ENV118 will be assessed against clear criteria, and these criteria will be made available to you via iLearn before the assessment tasks are due.

Submission of Assessment Tasks

All assessment tasks in ENV118 must be submitted online through iLearn and [Turnitin](#). Links for the submission of each assessment task will be available on iLearn.

Your assignments will be marked through Turnitin and your grades will be returned to you in the online Gradebook, along with feedback noted on the assignment itself. Please **do not** submit email or hard copies of your assignments.

Penalties for Late Assessments

The penalty for late submission of assessments in ENV118 is ten percent (10 %) of the

assessment value per day, calculated from the due time and date. This means that if the assignment is worth a total of 25 marks (or 25 % of the unit) you will lose 2.5 marks for each day late. This is a hefty penalty designed to make you aware of the importance of organising yourself around assessment due dates. The penalty will be applied over weekdays and weekends unless you have been granted an extension by the lecturer responsible for the assignment prior to the due date.

Extensions for Assessments

To obtain an extension for an assessment task, you need to follow the formal process as outlined in the [Special Consideration policy](#). You can submit your case for special consideration via ask.mq.edu.au and you must provide appropriate supporting documentation (e.g. medical certificate).

Return of Marked Assessments

Due to the large number of students in ENV118 (>200), we aim to return your assignments with feedback within three weeks of the date that you submit your assignment, and before your next assignment is due. We will advise you through iLearn when your marked assignments are available for viewing.

Assessment Tasks

Name	Weighting	Hurdle	Due
Weekly blog and tutorials	0%	Yes	Weeks 1 -12
Assessment 1	10%	No	Week 3
Assessment 2	30%	No	Week 6
Assessment 3	30%	No	Week 9
Assessment 4	30%	No	Week 13

Weekly blog and tutorials

Due: **Weeks 1 -12**

Weighting: **0%**

This is a hurdle assessment task (see [assessment policy](#) for more information on hurdle assessment tasks)

You must attend and participate in at least 10 of the 12 weekly tutorials to pass this unit. You must complete at least 10 of the 11 weekly blogs to pass this unit. This is a hurdle requirement. This requires weekly tutorial attendance, preparation by completing the required readings and related blog, and quality participation in class activities.

On successful completion you will be able to:

- Demonstrate foundational learning skills including active engagement in the learning process

Assessment 1

Due: **Week 3**

Weighting: **10%**

Online quiz on the unit's key concept. Detailed instructions available on iLearn.

On successful completion you will be able to:

- Recognise and define the core concepts of environmental management, including society, environment, sustainability and connectivity.
- Compare and discuss the core concepts of environmental management in relation to major environmental issues and the complex relationships between them.
- Write for a target audience and critically read, think about, interpret and evaluate environmental and social data.
- Demonstrate foundational learning skills including active engagement in the learning process

Assessment 2

Due: **Week 6**

Weighting: **30%**

Environmental data analysis and interpretation. Detailed instructions available on iLearn.

On successful completion you will be able to:

- Compare and discuss the core concepts of environmental management in relation to major environmental issues and the complex relationships between them.
- Interpret the core concepts of environmental management and provide examples of the ways that population, environment and resources interact to affect human societies and ecosystems at several scales.
- Utilise maps, graphs, statistics and text to construct, analyse and interpret information about key relationships in environmental and human systems.
- Write for a target audience and critically read, think about, interpret and evaluate environmental and social data.

Assessment 3

Due: **Week 9**

Weighting: **30%**

Local changes and planetary boundaries podcast. Detailed instructions available on iLearn.

On successful completion you will be able to:

- Recognise and define the core concepts of environmental management, including society, environment, sustainability and connectivity.
- Utilise maps, graphs, statistics and text to construct, analyse and interpret information about key relationships in environmental and human systems.
- Explain connections between resource use, environmental condition and the social, political and economic context of particular situations.
- Write for a target audience and critically read, think about, interpret and evaluate environmental and social data.

Assessment 4

Due: **Week 13**

Weighting: **30%**

Solutions for contemporary environmental crises poster and presentation. Detailed instructions available on iLearn.

On successful completion you will be able to:

- Compare and discuss the core concepts of environmental management in relation to major environmental issues and the complex relationships between them.
- Interpret the core concepts of environmental management and provide examples of the ways that population, environment and resources interact to affect human societies and ecosystems at several scales.
- Utilise maps, graphs, statistics and text to construct, analyse and interpret information about key relationships in environmental and human systems.
- Explain connections between resource use, environmental condition and the social, political and economic context of particular situations.
- Write for a target audience and critically read, think about, interpret and evaluate environmental and social data.

Delivery and Resources

Classes

ENV118 relies on a structured teaching program to facilitate your learning and critical thinking. The unit is taught via interactive lectures, panel discussions, tutorials, readings, and assessment tasks.

Students must attend one two-hour lecture and one one-hour tutorial class per week (note: a

tutorial is held in week 1, there no tutorials in Week 13).

Internal students are expected to attend the lectures and tutorial. External students must listen to the lectures via iLearn and/or Echo360 and complete the online version of the tutorial program hosted by a tutor. There are no on-campus sessions for students enrolled in the external mode (X2) of ENV118.

The timetable for ENV118 can be found at: <https://timetables.mq.edu.au/2019/>

ENV118 lectures will be livestreamed. This means you can watch and engage with them in real-time. Please note we still encourage all internal students to attend the lectures in person.

A detailed class schedule with lecture and tutorial topics is available in this unit guide and on iLearn.

Students must make use of iLearn to access teaching and learning materials, to submit assessment tasks, to stay in touch with the unit, to contact lecturers and tutors, and to discuss issues and concepts with classmates. We also recommend that you follow current developments in the multidisciplinary field of environmental management by staying abreast of the news.

Workload

ENV118 earns 3 credit points towards your degree. For a 3 credit point unit such as ENV118, you are expected to put in at least 9 hours of study per week, on average, over the semester. This requires planning on your part to do all the work required in lectures, tutorials, assignments, reading, and the final exam.

iLearn

ENV118 iLearn login page: <https://ilearn.mq.edu.au/login/>

Information about how students can access iLearn can be found at: <https://www.mq.edu.au/iLearn/n/>

The ENV118 iLearn page uses Macquarie University's standard interface and has links, discussion threads, blogs, access to lectures (as audio files through Echo360, and as downloadable PDF presentations) and tutorial material. Important announcements will be made through iLearn, so please check the ENV118 page regularly.

Echo360

Information about how to access lecture recordings through the Echo360 EchoCenter page in iLearn can be found at: <https://students.mq.edu.au/support/study/tools-and-resources/ilearn/ilearn-quick-guides-for-students/lecture-recordings>

Turnitin

Macquarie University promotes student awareness of information management and information ethics. As well as training and the provision of information, the University promotes academic honesty through use of the online program *Turnitin*.

Information about how to submit assignments to Turnitin in iLearn can be found at: <https://www.>

w.mq.edu.au/iLearn/student_info/assignments.htm

As well as being a key tool for assignment submission, marking and feedback, Turnitin compares your work with the work of your classmates, with previous students from Macquarie and other universities, with material available on the Internet, and with freely available and subscription-based electronic journals. The results are sent only to your lecturers, who will analyse them in reference to the University's [Academic Honesty Policy](#).

You will be able to access the results of the Turnitin academic honesty scan for your own assignments, known as your 'originality report'. In ENV118, we will allow you to overwrite the initial submission file with a second submission if you choose to do so, but only up until the final due date and time for the assignment. We consider this opportunity to fine-tune your academic honesty a considerable resource, and we hope that you will use this review process constructively to ensure you are referencing other material correctly and effectively.

Recommended Texts and Readings

There is no prescribed textbook for ENV118. However, these books and reports will provide helpful guidance and we recommended that students look up and make use of these texts in the library or online:

- Hay, I. 2012 *Communicating in geography and the environmental sciences* (Fourth ed.). Melbourne, Vic: Oxford University Press (also available as an e-book).
- Jackson, W.J., Argent, R.M., Bax, N.J., Bui, E., Clark, G.F., Coleman, S., Cresswell, I.D., Emmerson, K.M., Evans, K., Hibberd, M. F. Johnston, E.L. Keywood, M.S., Klekociuk, A., Mackay, R., Metcalfe, D., Murphy, H., Rankin, A., Smith, D.C., and Wiencke, B 2016. *Australia State of the Environment 2016*. Australian Government Department of the Environment and Energy, Canberra. Available online at <https://soe.environment.gov.au/>
- Rose, D.B. 1996 *Nourishing terrains: Australian Aboriginal views of landscape and wilderness*. Australian Heritage Commission, Canberra. Available online at <http://155.187.2.69/heritage/ahc/publications/commission/books/pubs/nourishing-terrains.pdf>
- Gibson, K., Rose, D.B. and Fincher, R., 2015. *Manifesto for Living in the Anthropocene*. Punctum books, Brooklyn, NY.

There are a range of readings relevant to the tutorial and lecture program. You will be guided through these via the iLearn site. To find these items go to the Macquarie University Leganto site - link available on iLearn.

Relationship to Other Units in Your Study Program

ENV118 is a core part of the Environmental Management major within the BEnv, BSc and BA. It is also a core requirement of the BPlan and is a useful unit for any student interested in the environment and a sustainable future. It is taught by staff from the [Department of Environmental Sciences](#) and the [Department of Geography and Planning](#), who have expertise in environmental science and human geography and the nexus between these disciplines. If you need academic

advice on your program, please make an appointment to see an academic staff member.

Unit Schedule

ENV118 Environmental Management for a Changing World

Class Schedule and Assessment Task Due Dates

Week	Lecture Date	Lecture Topics	Tutorial Classes	Assessment Tasks
Introduction and Key Concepts				
1	30 Jul	L1 Introduction to ENV118 (SSP) L2 Adaptation in environmental management (Prof. Lesley Hughes)	T1 Introductions, academic integrity and referencing	
2	6 Aug	L3 Sustainability, Environment and society (EE) L4 Connectivity (EE)	T2 Sustainability, connectivity, environment and society	T2 Blog due before class, part of Hurdle Task
Understanding Environmental Management for a Changing World				
3	13 Aug	L5 Terrestrial land management issues (EE) L6 Indigenous knowledge in environmental management (EE)	T3 Exploring the Bureau of Meteorology (BOM) website for climate data: Part 1	ASSESSMENT 1 (10%) Opens 17:00 Friday 9 August Closes 17:00 Friday 16 August T3 Blog due before class, part of Hurdle Task
4	20 Aug	L7 Water: a global perspective (EE) L8 Industry and agriculture (EE)	T4 Exploring the BOM website for climate data: Part 2	T4 Blog due before class, part of Hurdle Task
5	27 Aug	L9 Coastal management and sea level rise (Prof. Neil Saintilan) L10 Marine Protected Areas (KD)	T5 Hazard and Risk	T5 Blog due before class, part of Hurdle Task
6	3 Sept	L11 Energy and Sustainability (Prof Vlad Strezov) L12 Planetary boundaries in the Anthropocene (SSP)	T6 Communicating environmental issues	ASSIGNMENT 2 (30%) Due 9:00 Monday 2 September T6 Blog due before class, part of Hurdle Task
7	10 Sept	L13 Waste management and recycling (KD) L14 Terrestrial biodiversity management (KD)	T7 Resources and Sustainability	T7 Blog due before class, part of Hurdle Task
Mid-Semester Break				

8	1 Oct	L15 Urban sustainability on the coast (KD) L16 Human rights as an environmental issue (SSP)	T8 Poster and presentation preparation	T8 Blog due before class, part of Hurdle Task
9	8 Oct	L17 Development, population and inequality (SSP) L18 Over-consumption and ecological footprinting (SSP)	T9 The Population-Environment Connection: key issues	ASSIGNMENT 3 (30%) Due 9:00 Monday 7 October T9 Blog due before class, part of Hurdle Task
10	15 Oct	L19 People, place and country: integrating social and environmental justice (Emeritus Prof. Richie Howitt) L20 Environment and Planning (Dr Alison Ziller)	T10 Population, health and the environment: working with population data	T10 Blog due before class, part of Hurdle Task
11	22 Oct	L21 Sustainability @ MQ (Belinda Bean) L22 International environmental law (Prof. Shawkat Alam)	T11 Consumption, sustainability and ecofootprinting	T11 Blog due before class, part of Hurdle Task
12	29 Oct	L23 Darug Caring-as-Country: A whole-of-community approach to environmental management in Western Sydney (Uncle Lexodious Dadd, SSP) L24 Unit summary and study options	T12 Ecofootprint analysis	T12 Blog due before class, part of Hurdle Task
Synthesis				
13	5 Nov	<i>No lectures and tutorials this week.</i> ASSIGNMENT 4 (30%) Due <u>Monday 4 November</u> Internals must attend and present their poster at either Session 1: 10am-12noon <i>or</i> Session 2: 1pm-3pm in 12WW 801-803 (if you cannot make either time please contact Sandie and submit assignment online) Externals , online posters and presentations due 5pm Monday 4 November.		
Final Examination Period				

SSP = A/Prof Sandie Suchet-Pearson (Convenor) EE = Dr Emilie Ens KD = Katie Dafforn

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central\)](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)

- [Fitness to Practice Procedure](#)
- [Grade Appeal Policy](#)
- [Complaint Management Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#) (**Note:** The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.)

Undergraduate students seeking more policy resources can visit the [Student Policy Gateway](https://students.mq.edu.au/support/study/student-policy-gateway) (<https://students.mq.edu.au/support/study/student-policy-gateway>). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit [Policy Central](http://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<http://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central>).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/study/getting-started/student-conduct>

Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit ask.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

Learning Skills

Learning Skills (mq.edu.au/learningskills) provides academic writing resources and study strategies to improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

Student Enquiries

For all student enquiries, visit Student Connect at ask.mq.edu.au

If you are a Global MBA student contact globalmba.support@mq.edu.au

IT Help

For help with University computer systems and technology, visit http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/.

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

Graduate Capabilities

Creative and Innovative

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

Learning outcomes

- Utilise maps, graphs, statistics and text to construct, analyse and interpret information about key relationships in environmental and human systems.
- Explain connections between resource use, environmental condition and the social, political and economic context of particular situations.
- Write for a target audience and critically read, think about, interpret and evaluate environmental and social data.

Assessment tasks

- Assessment 2
- Assessment 3
- Assessment 4

Commitment to Continuous Learning

Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally and socially.

This graduate capability is supported by:

Learning outcomes

- Recognise and define the core concepts of environmental management, including society, environment, sustainability and connectivity.

- Compare and discuss the core concepts of environmental management in relation to major environmental issues and the complex relationships between them.
- Demonstrate foundational learning skills including active engagement in the learning process

Assessment tasks

- Weekly blog and tutorials
- Assessment 1
- Assessment 2
- Assessment 4

Discipline Specific Knowledge and Skills

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary solutions to problems.

This graduate capability is supported by:

Learning outcomes

- Recognise and define the core concepts of environmental management, including society, environment, sustainability and connectivity.
- Compare and discuss the core concepts of environmental management in relation to major environmental issues and the complex relationships between them.
- Interpret the core concepts of environmental management and provide examples of the ways that population, environment and resources interact to affect human societies and ecosystems at several scales.
- Utilise maps, graphs, statistics and text to construct, analyse and interpret information about key relationships in environmental and human systems.
- Demonstrate foundational learning skills including active engagement in the learning process

Assessment tasks

- Weekly blog and tutorials
- Assessment 1
- Assessment 2

- Assessment 3
- Assessment 4

Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

Learning outcomes

- Recognise and define the core concepts of environmental management, including society, environment, sustainability and connectivity.
- Compare and discuss the core concepts of environmental management in relation to major environmental issues and the complex relationships between them.
- Interpret the core concepts of environmental management and provide examples of the ways that population, environment and resources interact to affect human societies and ecosystems at several scales.
- Utilise maps, graphs, statistics and text to construct, analyse and interpret information about key relationships in environmental and human systems.
- Explain connections between resource use, environmental condition and the social, political and economic context of particular situations.
- Write for a target audience and critically read, think about, interpret and evaluate environmental and social data.

Assessment tasks

- Assessment 1
- Assessment 2
- Assessment 3
- Assessment 4

Problem Solving and Research Capability

Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:

Learning outcomes

- Interpret the core concepts of environmental management and provide examples of the ways that population, environment and resources interact to affect human societies and ecosystems at several scales.
- Utilise maps, graphs, statistics and text to construct, analyse and interpret information about key relationships in environmental and human systems.
- Explain connections between resource use, environmental condition and the social, political and economic context of particular situations.
- Write for a target audience and critically read, think about, interpret and evaluate environmental and social data.

Assessment tasks

- Assessment 2
- Assessment 3
- Assessment 4

Effective Communication

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:

Learning outcomes

- Compare and discuss the core concepts of environmental management in relation to major environmental issues and the complex relationships between them.
- Interpret the core concepts of environmental management and provide examples of the ways that population, environment and resources interact to affect human societies and ecosystems at several scales.
- Utilise maps, graphs, statistics and text to construct, analyse and interpret information about key relationships in environmental and human systems.
- Explain connections between resource use, environmental condition and the social, political and economic context of particular situations.
- Write for a target audience and critically read, think about, interpret and evaluate environmental and social data.
- Demonstrate foundational learning skills including active engagement in the learning

process

Assessment tasks

- Weekly blog and tutorials
- Assessment 1
- Assessment 2
- Assessment 3
- Assessment 4

Engaged and Ethical Local and Global citizens

As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should have a level of cultural literacy. Our graduates should be aware of disadvantage and social justice, and be willing to participate to help create a wiser and better society.

This graduate capability is supported by:

Learning outcomes

- Recognise and define the core concepts of environmental management, including society, environment, sustainability and connectivity.
- Compare and discuss the core concepts of environmental management in relation to major environmental issues and the complex relationships between them.
- Interpret the core concepts of environmental management and provide examples of the ways that population, environment and resources interact to affect human societies and ecosystems at several scales.
- Demonstrate foundational learning skills including active engagement in the learning process

Assessment tasks

- Weekly blog and tutorials
- Assessment 1
- Assessment 2
- Assessment 4

Socially and Environmentally Active and Responsible

We want our graduates to be aware of and have respect for self and others; to be able to work with others as a leader and a team player; to have a sense of connectedness with others and country; and to have a sense of mutual obligation. Our graduates should be informed and active

participants in moving society towards sustainability.

This graduate capability is supported by:

Learning outcomes

- Recognise and define the core concepts of environmental management, including society, environment, sustainability and connectivity.
- Compare and discuss the core concepts of environmental management in relation to major environmental issues and the complex relationships between them.
- Interpret the core concepts of environmental management and provide examples of the ways that population, environment and resources interact to affect human societies and ecosystems at several scales.
- Demonstrate foundational learning skills including active engagement in the learning process

Assessment tasks

- Weekly blog and tutorials
- Assessment 1
- Assessment 2
- Assessment 4