ENVS341
Advanced Environmental Earth Science
S1 Day 2016
Dept of Environmental Sciences

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General Information

Unit convenor and teaching staff
Unit Convenor
Paul Hesse
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Contact via paul.hesse@mq.edu.au

Credit points
3

Prerequisites
39cp and permission of Executive Dean of Faculty

Corequisites

Co-badge status

Unit description
This unit is offered as:
- A Session 1 or Session 2 unit involving small group tutorial teaching with academic staff on areas of relevance to recent research advances in the field. Assessment typically includes assignments, analysis of recent literature, and other major tasks determined in consultation with the unit convenor.
- As Session 3 unit that travels to the South Island of New Zealand. On an 11 day fieldtrip source-to-sink dynamics in a tectonically active, glaciated landscape are examined. The geomorphology and Quaternary evolution of the systems are contrasted with those of the Australian landmass examined in other units in the Environmental Earth Science major.

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:

This unit is offered as an individual or small group offering and learning outcomes vary according to the specific project
Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment</td>
<td>40%</td>
<td>various</td>
</tr>
<tr>
<td>Assessment</td>
<td>10%</td>
<td>various</td>
</tr>
<tr>
<td>Assessment</td>
<td>50%</td>
<td>various</td>
</tr>
</tbody>
</table>

Assessment

Due: various
Weighting: 40%

to be determined

On successful completion you will be able to:

• This unit is offered as an individual or small group offering and learning outcomes vary according to the specific project

Assessment

Due: various
Weighting: 10%

Assessment tasks will vary according to the specific project, to be determined by the supervisor

On successful completion you will be able to:

• This unit is offered as an individual or small group offering and learning outcomes vary according to the specific project

Assessment

Due: various
Weighting: 50%

Assessment tasks will vary according to the specific project, to be determined by the supervisor

On successful completion you will be able to:

• This unit is offered as an individual or small group offering and learning outcomes vary according to the specific project

Delivery and Resources

This unit is typically offered to individuals or small groups of students in consultation with an
Environmental Earth Science staff member.

The mode of delivery is usually regular meetings, rather than formal class times but may also include fieldwork or laboratory time.

**Unit Schedule**

The content of this unit will be determined on a case by case basis by each supervisor, in accordance with University policies.

For permission to enrol in this unit you should first talk to one of the Environmental Earth Science staff. Once you have secured their support you can apply for Special Permission to enrol.

**Policies and Procedures**

Macquarie University policies and procedures are accessible from [Policy Central](http://mq.edu.au/policy/docs/). Students should be aware of the following policies in particular with regard to Learning and Teaching:


In addition, a number of other policies can be found in the [Learning and Teaching Category](http://mq.edu.au/policy/docs/) of 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/support/student_conduct/](https://students.mq.edu.au/support/student_conduct/)

**Results**

Results shown in *iLearn*, 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](http://ask.mq.edu.au).
**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 outcome**
- This unit is offered as an individual or small group offering and learning outcomes vary according to the specific project

**Assessment tasks**
- Assessment
- Assessment
Capable of Professional and Personal Judgement and Initiative

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

**Learning outcome**

- This unit is offered as an individual or small group offering and learning outcomes vary according to the specific project

**Assessment tasks**

- Assessment
- Assessment
- Assessment

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 outcome**

- This unit is offered as an individual or small group offering and learning outcomes vary according to the specific project

**Assessment tasks**

- Assessment
- Assessment
- Assessment

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 outcome**

- This unit is offered as an individual or small group offering and learning outcomes vary
  according to the specific project

**Assessment tasks**

- Assessment
- Assessment
- Assessment

**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 outcome**

- This unit is offered as an individual or small group offering and learning outcomes vary
  according to the specific project

**Assessment tasks**

- Assessment
- Assessment
- Assessment

**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 outcome**

- This unit is offered as an individual or small group offering and learning outcomes vary
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 outcome

- This unit is offered as an individual or small group offering and learning outcomes vary according to the specific project

Assessment tasks

- Assessment
- Assessment
- Assessment

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 outcome

- This unit is offered as an individual or small group offering and learning outcomes vary according to the specific project

Assessment tasks

- Assessment
- Assessment
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 outcome**

- This unit is offered as an individual or small group offering and learning outcomes vary according to the specific project

**Assessment tasks**

- Assessment
- Assessment
- Assessment