



EESC3000

PACE: In Earth and Environmental Sciences

Session 1, In person-placement, North Ryde 2025

School of Natural Sciences

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Disclaimer

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General Information

Unit convenor and teaching staff

Convenor

Paul Hesse

paul.hesse@mq.edu.au

Contact via email

12WW 228

Tracy Rushmer

tracy.rushmer@mq.edu.au

Credit points

10

Prerequisites

160 cp at 1000 level or above including ENVS2364

Corequisites

Co-badged status

Unit description

This PACE unit allows students to engage with the community through activities that benefit both students and host organisations. Activities can be individual or group-based and involve public-sector agencies, companies, industry partners, not-for-profits, education providers, and the Department of Earth and Environmental Sciences in research and teaching. Organisations may be local, regional, or international, with engagement online or in person. Students will develop skills that enhance employability and broaden their career perspectives.

All students planning to enrol in EESC3000 must apply for [Special Approval](#) and consult with PACE and the Unit Convenor(s) by: (1) self-enrolling in the pre-enrolment [iLearn Community Unit](#); (2) reviewing all available information in the pre-enrolment iLearn Community Unit. Visit [Employability Connect](#) for important information on this unit.

Learning in this unit enhances student understanding of global challenges identified by the United Nations Sustainable Development Goals ([UNSDGs](#)) Quality Education; Climate Action; Life on Land; Life Below Water

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:

ULO1: demonstrate effective self-directed learning and team work interpersonal skills and apply geoscientific principles to integrate and interpret data to solve real world problems

ULO2: engage with community and industry partners and combine discipline-specific knowledge and a students' skill set to develop employability and citizenship

ULO3: practice scientific and professional responsibilities including adherence to required standards of workplace safety and ethics

ULO4: effectively use written, verbal and digital scientific communication mediums to summarise and present complex information appropriately for diverse audiences, including government and the community

General Assessment Information

Assessments must be submitted at the specified times on their due dates. Should these assessments be missed due to illness or misadventure, students should **apply for Special Consideration**.

Assessments not submitted by the due date will receive penalties in accord with University policy, unless Special Consideration has been requested and granted

PACE Portfolio

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

This hurdle assessment task includes preparing a CV, cover letter writing, and preparing a risk assessment and management plan.

Because this assessment includes the workplace/activity risk assessment to ensure your safety, the Risk Assessment **MUST** be completed and approved before you can undertake your placement. You should attempt the form (following the second meeting) and submit it. We will help you with any questions before you submit or help you improve it subsequently until it is accepted.

Reflective Journal

The journal will describe the PACE activity and placement as it proceeds.

Poster Presentation

The poster will outline the results of the PACE activity and placement. It will involve a scheduled oral presentation of a poster.

Final Report

The Final Report is a written assignment that will follow up on the poster presentation. It will describe your learning experiences during your PACE activity and placement.

Requirements to Pass the EESC3000 you must:

- Attempt all assessments, and
- Achieve a total mark of 50%, and
- Participate in and undertake all hurdle activities for a minimum of 75%, and
- Complete 70 hours of your placement

Assessment Tasks

Name	Weighting	Hurdle	Due
PACE Portfolio	10%	Yes	17-21 March 2025
Pitch Video	20%	No	20 March 2025
Reflective Journal	20%	No	Week 4, 8, 12
Poster presentation	20%	No	6 June 2025
Final report	30%	No	8 June 2025

PACE Portfolio

Assessment Type ¹: Portfolio

Indicative Time on Task ²: 15 hours

Due: **17-21 March 2025**

Weighting: **10%**

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

This hurdle assessment task includes preparing a CV, cover letter writing, preparing a risk assessment and management plan

On successful completion you will be able to:

- engage with community and industry partners and combine discipline-specific knowledge and a students' skill set to develop employability and citizenship

- effectively use written, verbal and digital scientific communication mediums to summarise and present complex information appropriately for diverse audiences, including government and the community

Pitch Video

Assessment Type ¹: Media presentation

Indicative Time on Task ²: 10 hours

Due: **20 March 2025**

Weighting: **20%**

A short video pitch for your PACE placement explaining experience and qualifications.

On successful completion you will be able to:

- engage with community and industry partners and combine discipline-specific knowledge and a students' skill set to develop employability and citizenship
- effectively use written, verbal and digital scientific communication mediums to summarise and present complex information appropriately for diverse audiences, including government and the community

Reflective Journal

Assessment Type ¹: Reflective Writing

Indicative Time on Task ²: 10 hours

Due: **Week 4, 8, 12**

Weighting: **20%**

A reflective journal of the PACE activity and placement.

On successful completion you will be able to:

- demonstrate effective self-directed learning and team work interpersonal skills and apply geoscientific principles to integrate and interpret data to solve real world problems
- engage with community and industry partners and combine discipline-specific knowledge and a students' skill set to develop employability and citizenship

Poster presentation

Assessment Type ¹: Presentation

Indicative Time on Task ²: 10 hours

Due: **6 June 2025**

Weighting: **20%**

A poster presentation on the PACE activity and placement.

On successful completion you will be able to:

- engage with community and industry partners and combine discipline-specific knowledge and a students' skill set to develop employability and citizenship
- practice scientific and professional responsibilities including adherence to required standards of workplace safety and ethics
- effectively use written, verbal and digital scientific communication mediums to summarise and present complex information appropriately for diverse audiences, including government and the community

Final report

Assessment Type ¹: Report

Indicative Time on Task ²: 20 hours

Due: **8 June 2025**

Weighting: **30%**

A final report on the PACE activity and placement.

On successful completion you will be able to:

- engage with community and industry partners and combine discipline-specific knowledge and a students' skill set to develop employability and citizenship
- practice scientific and professional responsibilities including adherence to required standards of workplace safety and ethics
- effectively use written, verbal and digital scientific communication mediums to summarise and present complex information appropriately for diverse audiences, including government and the community

¹ If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Writing Centre](#) for academic skills support.

² Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

Delivery and Resources

This PACE unit provides an opportunity for students to engage with the community through a variety of activities that are mutually beneficial for students and the organisations that host them. Activities can be undertaken by individuals or groups and could involve engagement with public-sector agencies, companies, industry partners, not-for-profit organisations, education providers, and the School of Natural Sciences in relation to research and teaching initiatives. Organisations could be based locally, regionally, or internationally, and engagement could occur online as well as in person. Students will gain skills that make them more employable and provide them with a larger view of careers and where their degree can take them.

First Workshop (in person): Thursday 27th February (Week 1)

Second Workshop (in person): Thursday 13 March (Week 3)

Methods of Communication

We will communicate with you via your Macquarie University email and the announcements on iLearn. Queries to me or the PACE team can either be placed on iLearn Discussion Board or sent to us via the contact on the email on iLearn

All students planning to enrol in EESC3000 must apply for [Special Approval](#) and consult with PACE and the Unit Convenor(s) by: (1) self-enrolling in the pre-enrolment [iLearn Community Unit](#); (2) reviewing all available information in the pre-enrolment iLearn Community Unit. Important: if you are finding and proposing your own PACE activity you need to do so as soon as possible in the Session.

PACE Portfolio

Assessment Type ¹: Portfolio Indicative Time on Task ²: 15 hours Due: between the **17-21/03/25**. **This is a hurdle assessment task (see [assessment policy](#) for more information on hurdle assessment tasks)**

This hurdle assessment task includes preparing a CV, cover letter writing, preparing a risk assessment and management plan

On successful completion you will be able to:

- engage with community and industry partners and combine discipline-specific knowledge and a students' skill set to develop employability and citizenship
- effectively use written, verbal and digital scientific communication mediums to summarise and present complex information appropriately for diverse audiences,

including government and the community

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Reflective Journal

Assessment Type ¹: Reflective Writing Indicative Time on Task ²: 10 hours Due: **Weeks 4, 8, 12.**

A reflective journal of the PACE activity and placement.

On successful completion you will be able to:

- demonstrate effective self-directed learning and team work interpersonal skills and apply geoscientific principles to integrate and interpret data to solve real world problems
- engage with community and industry partners and combine discipline-specific knowledge and a students' skill set to develop employability and citizenship

Poster presentation

Assessment Type ¹: Presentation Indicative Time on Task ²: 10 hours Due: **29/05/25**

A poster presentation on the PACE activity and placement.

On successful completion you will be able to:

- engage with community and industry partners and combine discipline-specific knowledge and a students' skill set to develop employability and citizenship
- practice scientific and professional responsibilities including adherence to required standards of workplace safety and ethics
- effectively use written, verbal and digital scientific communication mediums to summarise and present complex information appropriately for diverse audiences, including government and the community

Final report

Assessment Type ¹: Report Indicative Time on Task ²: 14 hours Due: **01/06/25**

A final report on the PACE activity and placement.

On successful completion you will be able to:

- engage with community and industry partners and combine discipline-specific knowledge and a students' skill set to develop employability and citizenship
- practice scientific and professional responsibilities including adherence to required standards of workplace safety and ethics

- effectively use written, verbal and digital scientific communication mediums to summarise and present complex information appropriately for diverse audiences, including government and the community

¹ If you need help with your assignment, please contact:

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COVID Information

For the latest information on the University's response to any upcoming COVID-19 issues, please refer to the Coronavirus infection page on the Macquarie website: <https://www.mq.edu.au/about/coronavirus-faqs>. Remember to check this page regularly in case the information and requirements change during semester. If there are any changes to this unit in relation to COVID, these will be communicated via iLearn.

Unit Schedule

Workshops are on selected Thursdays from 3-4 PM in room O1CC 218 Active Learning Space. The workshops topics include an introduction to the unit; CV and cover letter writing; risk assessment; a midterm review; and the poster presentation, which will include oral discussion.

Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central](https://policies.mq.edu.au) (<https://policies.mq.edu.au>). 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](#)
- [Assessment Procedure](#)
- [Complaints Resolution Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#)

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

To find other policies relating to Teaching and Learning, visit [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au) and use the [search tool](#).

Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/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 connect.mq.edu.au or if you are a Global MBA student contact globalmba.support@mq.edu.au

Academic Integrity

At Macquarie, we believe [academic integrity](#) – honesty, respect, trust, responsibility, fairness and courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free [online writing and maths support](#), [academic skills development](#) and [wellbeing consultations](#).

Student Support

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

Academic Success

[Academic Success](#) provides resources to develop your English language proficiency, academic writing, and communication skills.

- [Workshops](#)
- [Chat with a WriteWISE peer writing leader](#)
- [Access StudyWISE](#)
- [Upload an assignment to Studiosity](#)
- [Complete the Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

Student Services and Support

Macquarie University offers a range of [Student Support Services](#) including:

- [IT Support](#)
- [Accessibility and disability support](#) with study
- Mental health [support](#)
- [Safety support](#) to respond to bullying, harassment, sexual harassment and sexual assault
- [Social support including information about finances, tenancy and legal issues](#)
- [Student Advocacy](#) provides independent advice on MQ policies, procedures, and processes

Student Enquiries

Got a question? Ask us via the [Service Connect Portal](#), or contact [Service Connect](#).

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.

Unit information based on version 2025.02 of the [Handbook](#)