



MOLS3003

PACE: Molecular Sciences Project

Session 2, In person-scheduled-weekday, North Ryde 2022

School of Natural Sciences

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General Information

Unit convenor and teaching staff

Convenor

Koushik Venkatesan

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Contact via 0298508296

4WW123

Appointments by email is encouraged for face to face discussion

Credit points

10

Prerequisites

Corequisites

30cp from CHEM or BMOL units at 3000 level

Co-badged status

Unit description

This PACE unit is aimed at providing students with specialisations in Chemistry, Advanced Chemistry, Advanced Biomolecular Science, and Chemical and Biomolecular Sciences with work experience in the Molecular Sciences. The work experience involves participating in research with industry and/or key partners on projects in the chemistry or biomolecular science areas under the supervision of Macquarie staff and experts from industry and community-based agencies. The projects conducted in the course of completing this unit must be relevant to the Molecular Sciences and carried out with a partner approved by the Unit Convenor. The projects are devised so that individuals, or small teams of students with a blend of skills that cut across the proposed project needs, are able to undertake a research project in chemistry and/or biomolecular science areas. The projects will be done under the supervision of both Macquarie staff and experts from approved partners. The nature and composition of the projects are to be determined by the groups in concert with the external partners and advice from internal advisors; however, they are always research-based and focused on areas of relevance to the partners.

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:** Design a research project in the context of a PACE activity with active engagement with a relevant partner
- ULO2:** Produce a professional report of the size and complexity required of workers in the field
- ULO3:** Create and maintain a group for the duration of the PACE activity, including delegating tasks and accepting tasks from colleagues/group members and taking some responsibility for aspects of group management
- ULO4:** Present information to a diverse audience in a confident and professional manner.
- ULO5:** Reflect on the PACE activity, including the ethical, social, personal and intellectual aspects of the activity.
- ULO6:** Demonstrate a sense of social, environmental and ethical awareness.

General Assessment Information

Late Assessment Submission Penalty

From 1 July 2022, Students enrolled in Session based units with written assessments will have the following university standard late penalty applied. Please see <https://students.mq.edu.au/study/assessment-exams/assessments> for more information.

Unless a Special Consideration request has been submitted and approved, a 5% penalty (of the total possible mark) will be applied each day a written assessment is not submitted, up until the 7th day (including weekends). After the 7th day, a grade of '0' will be awarded even if the assessment is submitted. Submission time for all written assessments is set at **11:55 pm**. A 1-hour grace period is provided to students who experience a technical concern.

For any late submission of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, students need to submit an application for [Special Consideration](#).

In this unit, late submissions will accepted as follows:

- Assessment items A private blog, Detailed project proposal, Project report and Reflective praxis – YES, Standard Late Penalty applies
- Assessment project presentation - NO, unless Special Consideration is Granted

Assessment Tasks

Name	Weighting	Hurdle	Due
A private blog	20%	No	Week 4, Week 6, Week 8, Week 10 and Week 12
Detailed project proposal	20%	No	26/08/2022
Project report	40%	No	31/10/2022
Reflective Praxis	10%	No	2/11/2022
Project Presentation	10%	No	Week 12 and Week 13

A private blog

Assessment Type ¹: Log book

Indicative Time on Task ²: 12 hours

Due: **Week 4, Week 6, Week 8, Week 10 and Week 12**

Weighting: **20%**

The first assessment is a private blog of their PACE experience which spans the semester. This private blog also provides a means of monitoring of student progress across the semester as the blog will be monitored by the teaching staff in the unit across the course of semester with feedback provided at three points during the semester.

On successful completion you will be able to:

- Design a research project in the context of a PACE activity with active engagement with a relevant partner
- Create and maintain a group for the duration of the PACE activity, including delegating tasks and accepting tasks from colleagues/group members and taking some responsibility for aspects of group management
- Reflect on the PACE activity, including the ethical, social, personal and intellectual aspects of the activity.

Detailed project proposal

Assessment Type ¹: Plan

Indicative Time on Task ²: 8 hours

Due: **26/08/2022**

Weighting: **20%**

The second assessment task, Detailed project proposal, is a key component of the because students of the unit are required to interact with their partners (and convenor where appropriate) to produce a project proposal. The purpose of this assessment is to require students to actively interact with the partner to agree on a project that can be executed within the context of the PACE experience.

On successful completion you will be able to:

- Design a research project in the context of a PACE activity with active engagement with a relevant partner
- Demonstrate a sense of social, environmental and ethical awareness.

Project report

Assessment Type ¹: Report

Indicative Time on Task ²: 10 hours

Due: **31/10/2022**

Weighting: **40%**

The third assessment is a project report which encompasses the practical aspects of communicating and analyzing their project in the context of real world research encompassing the scientific disciplines of chemistry and biomolecular sciences. This will often be the first time that students have engaged in a research project where they may not necessarily know the outcomes of the work that they are performing together with the partners. They will be challenged to think in different ways as they come to grips what it means to work in these scientific disciplines.

On successful completion you will be able to:

- Produce a professional report of the size and complexity required of workers in the field
- Present information to a diverse audience in a confident and professional manner.

Reflective Praxis

Assessment Type ¹: Reflective Writing

Indicative Time on Task ²: 12 hours

Due: **2/11/2022**

Weighting: **10%**

To synthesise all of the learning objectives and outcomes in this unit, the final assessment is a Reflective Praxis, which involves the student critically reflecting upon what they have learned in the unit, and the experience gained through their PACE activity. It is at this time that the student will also re-visit their pre- and post-unit profile surveys, all their assessments and the unit theoretical content. Further, the Unit Convenor will cross-examine this written work with the partner supervisors feedback.

On successful completion you will be able to:

- Reflect on the PACE activity, including the ethical, social, personal and intellectual aspects of the activity.

Project Presentation

Assessment Type ¹: Presentation

Indicative Time on Task ²: 12 hours

Due: **Week 12 and Week 13**

Weighting: **10%**

The fourth assessment is an example of communicating science in action. Students use creative media (e.g. Prezi, Powerpoints with animation and voice-over, video, etc.) to showcase a Graduate Capability (in theory and practice) and the way in which this relates to their discipline. Doing so effectively within 5 minutes is an excellent test of a students ability to apply communicating science theory delivered in the unit, and it helps students grasp what the Graduate Capabilities really mean to them, personally and professionally. The presentation is a component of the wrap up/debrief at the end of semester.

On successful completion you will be able to:

- Present information to a diverse audience in a confident and professional manner.

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

The project will take place either in the research laboratories of the project supervisors at MQ or at organisations where the students will be hosted. In the case where no space is available in research laboratories, the projects can be carried out in the teaching laboratories

The SGTA lectures will be delivered face to face.

A number of online resources will be provided on the iLearn site to help the students carry out the task and fulfil the learning objectives of the unit.

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 ask.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/>

The Writing Centre

[The Writing Centre](#) 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 Enquiries

Got a question? Ask us via [AskMQ](#), 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.