



MOLS7900

Research Frontiers in Chemistry and Biomolecular Sciences

Session 1, Weekday attendance, North Ryde 2020

Department of Molecular Sciences

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General Information

Unit convenor and teaching staff

Unit Convenor

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Contact via 98508251

4WW334

By appointment

Bridget Mabbutt

bridget.mabbutt@mq.edu.au

Credit points

10

Prerequisites

Admission to MRes

Corequisites

Co-badged status

Unit description

This unit is designed to engage students with those topics currently dominating the chemical and biomolecular sciences. It will expose students to current research questions across the range of the broad discipline. Activities are based on seminar attendance, as well as directed reading of research papers and the discussion and critiquing of research topics in written and seminar forms. Students will be guided to a range of readings that engage new directions of scientific thought and break-through methodologies, such as recent Nobel Prize-winning outcomes. This unit will allow students to reflect on current trends and to communicate changes underway.

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: Communicate components of advanced molecular science knowledge as presented at local research seminars from across the discipline

ULO2: Outline technology trends developing internationally in contemporary molecular science research

ULO3: Articulate in written and oral form cutting-edge achievements across the molecular sciences, and the manner by which key discoveries are made.

Assessment Tasks

Coronavirus (COVID-19) Update

Assessment details are no longer provided here as a result of changes due to the Coronavirus (COVID-19) pandemic.

Students should consult [iLearn](#) for revised unit information.

[Find out more about the Coronavirus \(COVID-19\) and potential impacts on staff and students](#)

Delivery and Resources

Coronavirus (COVID-19) Update

Any references to on-campus delivery below may no longer be relevant due to COVID-19.

Please check here for updated delivery information: https://ask.mq.edu.au/account/pub/display/unit_status

Seminar attendance and critique

Departmental research seminars generally occur in MolSci on selected Tuesdays, although special seminars are often arranged at short notice. Remember to check the Department's website regularly for updates.

Seminars within formal series sponsored within other University/Medical Research Departments serve as an excellent educational opportunity to become aware of areas of current research focus.

You must obtain record for a total of 10 seminar experiences by June 5. It is your responsibility to retain and collate sign-off on the Unit-approved class sheet as participation record. A printed card will be distributed to all students at the start of the Unit.

Your final presentation in Week 12 (or Week 13) must focus on one selection from the 10 seminar experiences documented on your personal attendance record.

News of seminars on offer around Sydney and of relevance in the molecular sciences will be regularly placed on the iLearn site. You may wish to include seminars held in other university departments or research institutes, as well as those formally hosted in the metropolitan area by professional organisations such as Royal Australian Chemical Institute, Joint Microbiological Associations (JAMS), Sydney Protein Group, etc.

Technology essay and viva

As noted within the semester schedule above, once you have selected your technology topic from those offered this year, it is your responsibility to contact and arrange interview and viva times with the relevant supervising academic.

Unit Schedule

Coronavirus (COVID-19) Update

The unit schedule/topics and any references to on-campus delivery below may no longer be relevant due to COVID-19. Please consult [iLearn](#) for latest details, and check here for updated delivery information: https://ask.mq.edu.au/account/pub/display/unit_status

This Unit consists of self-directed tasks, with formal classroom experience only occurring in first and last weeks of semester. You will also need to make times available for one-on-one meetings with your designated theme leader, as well as Tuesday lunch-time Research Seminars.

It is your responsibility to organise your work according to the following schedule:

Week 1-12:

An introductory briefing will be held during Week 1 to outline the **Unit organisation** and to distribute seminar attendance sheets.

Following this, you will attend ~1 research seminar weekly as part of your research training in this Unit. Seminars will most likely be selected from the Molecular Sciences Research Seminar series at Macquarie (Tuesdays, 1pm) as advertised on the Departmental website. However, you are invited to attend other departmental/institutional research seminars that interest you.

Week 2:

A workshop will be held (4 Mar) by the University's Science HDR Learning Skills Advisor covering **literature searching and construction of an annotated literature review**.

You will be notified within iLearn of the Breakthrough Technology topics available for review, together with the academic staff theme leader. It is your responsibility to coordinate contact with the supervising academic for direction concerning appropriate reading literature. You must compile a written critical review of background methodology and contemporary applications of this breakthrough technology (as detailed in assessment tasks).

Week 6, Mid-semester Task (April 3):

5pm deadline for electronic submission of (i) **draft technology essay** and (ii) **annotated**

literature review via the Turnitin portal on the iLearn site. Late submissions will be subject to a 10% penalty per day.

Weeks 7-8, Viva:

Viva covering your technology topic with designated supervising academic. It is your responsibility to arrange and schedule this interview in advance at a mutually convenient time.

Week 11 (May 22), Final Review Submission:

5pm deadline for electronic submission of **revised technology essay** via the Turnitin portal on the iLearn site. Late submissions will be subject to a 10% penalty per day.

Weeks 12 and 13 (May 27 or Jun 3), Peer Seminars:

Student **presentations and discussion sessions** will be held within scheduled 3hr workshops both weeks. You must attend and engage on **both days**. You will be informed of your allocated speaking day / time in advance. Your contribution to peer discussion during these seminar sessions will be graded, as well as your own presentation.

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.*)

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 \(https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/p\)](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/p)

[olicy-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 help you improve your marks and take control of your study.

- [Getting help with your assignment](#)
- [Workshops](#)
- [StudyWise](#)
- [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

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.

Changes from Previous Offering

Dr Andrew Piggott has taken over from A/Prof. Bridget Mabbutt as the Unit Convenor

Changes since First Published

Date	Description
18/02/2020	Added assessment due dates, delivery and resources and unit schedule