



BIOL1620

Foundation in Medical Sciences

Session 1, Weekday attendance, North Ryde 2020

Department of Biological Sciences

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General Information

Unit convenor and teaching staff

Unit Convenor

Fleur Ponton

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Unit Coordinator

Michelle Power

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First Year Teaching Coordinator

Kate Barry

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Credit points

10

Prerequisites

Corequisites

Co-badged status

Unit description

This unit provides foundation skills required for working in a medical science laboratory. Skills will be learnt in the context of current global health issues including antimicrobial resistance and malaria, health reporters such as immunity and haematology and approaches to disease diagnosis. Students will acquire hands-on laboratory skills, including aseptic technique for microbiological and DNA analyses, use of microscopes, and data collection and analysis. Students will hear from medical scientists and medical researchers who will provide context for the weekly skills topics and information on the diverse employment areas in medical science. Students also begin to acquire skills in interpreting and citing scientific literature and developing a foundation in communication skills and scientific writing.

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: Articulate and practice appropriate health, safety and ethical standards relevant to medical science

ULO2: Describe global health issues of significance to society today using appropriate scientific terminology

ULO3: Develop and demonstrate competencies in standard laboratory techniques (e.g. dilutions, aseptic technique, imagery and measurement, labelling, diagnostic sample preparation)

ULO4: Describe and practice scientific methods from generating hypotheses and predictions to designing experimental procedures, and undertaking data collection

ULO5: Develop competency in working individually or as a team in the laboratory and tutorials

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](#)

General Assessment Information

- Competence with skills, data analyses and interpretation, and preparation of scientific reports are the main forms of assessment in BIOL1620.
- Attendance at practical sessions is a required to pass this unit.
- Detailed information for each assessment and marking criteria are outlined under the assessment tabs in iLearn.
- All assessments are submitted via Turnitin which evaluates your assessment against that of other students in this years course and previous years, literature, websites etc. Turnitin then provides a similarity score that is used as a measure of plagiarism (see Academic Integrity policy in tab below).
- Assessments (including quizzes) are your own work.

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

LECTURES: BIOL1620 comprises weekly lectures that cover hot topics in Health and Disease. While we understand that clashes may prevent you from attending lectures we find that students who attend lectures get the best out of the subjects. Lecturers are guests and represent the best in their fields, they are taking time out of their work to talk to you, so please do your best to attend the lectures.

TUTORIAL AND PRACTICAL CLASSES: It is compulsory to attend the weekly block classes which begin with a tutorial followed by the practical session. A role will be taken to record attendance and to identify your participation in these classes.

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

Week	Lecturer	Topic
1	Michelle Power & Fleur Ponton	Introduction
2	Ian Johnson	Neurodegenerative disease research
3	Noushin Nasiri	Variable technologies for health applications
4	Joanne Jamie	Indigenous plants and medicinals
5	Sarah White	The science of talk
6	Nathan Hart	Cognition and
7	Guest lecturer	TBA
8	Michelle Power	Antimicrobial resistance
9	Wendy Rogers	Health Ethics
10	Esther Lim	Genomics and personalised medicine
11	Michelle Power	Emerging Infectious Disease
12	Panel discussion	GAMSAT experience - TBC

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 \(https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central\)](https://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 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 since First Published

Date	Description
13/02/2020	Staff change