



BIOL3440

Aquatic Ecosystems

Session 1, Weekday attendance, North Ryde 2020

Department of Biological Sciences

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General Information

Unit convenor and teaching staff

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Credit points

10

Prerequisites

130cp at 1000 level or above including (BIOL2410 or BIOL227) or (BIOL2310 or BIOL228) or (ENVS3239 or ENVS339)

Corequisites

Co-badged status

Unit description

This unit introduces the diverse nature of aquatic ecosystems, from catchment to coast, their biota, and the physical and chemical factors that have shaped their structure and function. The unit provides a holistic catchment perspective, covering lakes, rivers, estuaries, and temperate marine communities, fish, invertebrates and ecosystem processes, with a focus on Australian systems. Students will come to understand the key ecological components and processes in aquatic systems, and how ecological knowledge can be applied to management issues. The unit will provide students with experience in environmental monitoring and manipulative experiments, including formulating hypotheses, designing experiments, data collection, analyses, and communication of results. A basic knowledge of statistics is assumed. This unit has a strong emphasis on fieldwork, with essential supporting and contextual knowledge provided by laboratory classes and lectures. This unit helps prepare individuals for employment in aquatic sciences and is beneficial for those continuing to postgraduate studies in aquatic ecology and management.

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: Describe the characteristics and ecological roles of the major biotic groups in aquatic ecosystems

ULO2: Identify common invertebrates to the family level

ULO3: Identify physical, chemical, and biotic factors in oceans, estuaries, rivers, streams, lakes, and aquifers that influence biota, and ecosystem functions and services

ULO4: Apply various field methods for sampling aquatic biota and understand the risks associated with fieldwork in and around water

ULO5: Analyse data using statistics and present results graphically and in reports

ULO6: Prepare, edit and analyse scientific data and reports to a professional standard

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

All assessable items must be handed in on time. A 10% deduction per 24 hrs will commence immediately after the submission time. For example, 10% of the total score will be deducted for any assignment handed within the first 24 hrs after the submission time. 20% deduction for an assignment which is between 24 and 48 hrs late etc.

All written work must be in the student's own words. Assessments submitted via Turnitin will be subjected to plagiarism detection. Plagiarism will not be tolerated. Penalties for plagiarism range from loss of marks to awarding of a zero, depending upon the level of plagiarism, and reporting to the Faculty Disciplinary Committee. Also, if late submissions are accepted, please specify the policy for them.

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

The unit will be lecture and practical based. In addition all students must attend the compulsory field trip to Kangaroo Valley.

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
23/02/2020	Just a redundant sentence was moved: Also, if late submissions are accepted, please specify the policy for them.
11/02/2020	Clarification of penalties for late submission and plagiarism.