



GEOS2130

Marine Sediments: Records of Past Earth

Session 1, Weekday attendance, North Ryde 2020

Department of Earth and Environmental Sciences

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General Information

Unit convenor and teaching staff

Stefan Loehr

stefan.loehr@mq.edu.au

Credit points

10

Prerequisites

(GEOS112 or GEOS125 or GEOS126 or GEOS1110 or GEOS1120 or GEOS1130) and (60cp at 1000 level or above)

Corequisites

Co-badged status

Unit description

This unit builds the skills necessary to understand geological processes in modern and ancient marine environments. With a focus on marine sedimentology, we will examine the formation, accumulation, alteration, and preservation of sediments in the geological record. We will cover the basics of fluid flow and sediment transport, sedimentary textures and structures, and illustrate the connections between modern landforms and ancient rocks/depositional environments. This unit will focus on the reconstruction and interpretation of ancient palaeo-environments based on the analysis of sedimentary structures, stratigraphy, and fossils. The unit will include practical components as well as a fieldtrip to the New South Wales south coast.

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: Identify the common types of sedimentary rocks, sedimentary structures, stratigraphic features, and use these to infer depositional environments

ULO2: Deduce the depositional history from a stratigraphic sequence

ULO3: Utilise specialised software and tools to interrogate samples or data sets to formulate internally consistent answers to scientific questions

ULO4: Demonstrate the ability to observe and record information in the field in order to

later report on field trip results

ULO5: Examine and interpret the interactions between climate, circulation, tectonics, weathering, and sedimentary environments

ULO6: Effectively and professionally communicate scientific information to experts and non-experts

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

Late Submissions

Any work received after the deadline will be marked down 10%, with an additional 5% each day (24 hrs) past the deadline. Extensions are only possible with instructor permission and requests must be made by email to the unit convenor before the assessment deadline.

Final Exam

If you apply for Disruption to Study for your final examination, you must make yourself available during the supplemental exam period. If you are not available at that time, there is no guarantee an additional examination time will be offered. Specific examination dates and times will be determined at a later date.

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

Workshops

GEOS2130 utilises the workshop format, i.e. there are no separately timetables lectures and practicals, rather lecture and practical hands-on content are blended in weekly workshops. Lecture slides from the lecture component of each workshop will be available on the iLearn page but lecture recordings will not be provided for this unit. Students are expected to satisfactorily

participate in a minimum of 10 (ten) of the 12 (twelve) weekly workshops. To monitor this attendance will be recorded, and workshop hand-outs will be collected and reviewed each week. Due to space and supplies limitations, you must participate in the workshop session you are enrolled in. Permission to attend a different workshop may be possible and will be evaluated on a case by case basis, but this permission must be approved by the unit convenor in advance. Laptop computers will be provided if required. Food and drink are not allowed in the practical room for safety reasons.

Field work

During this unit we will have a field trip to the NSW South Coast from April 21st through April 25th to study both modern and ancient marine depositional environments. As a vital part of the unit, participation in the field trip is *compulsory*. There is a fee associated with this field trip and the costs will be discussed during the first few weeks of the unit. Students will need to provide their own appropriate personal field gear (sturdy footwear, rain jacket, field notebook) and purchase food in addition to the field trip fee. Please contact one of your instructors immediately with any concerns.

Quizzes

A quiz will be posted on iLearn weekly (except in week 13) to be **completed during class**. No quizzes completed outside of the scheduled workshop deadline will be marked, unless extenuating circumstances apply. Quizzes will cover material from previous workshops and assigned reading materials. Your two lowest marks will be dropped, each of the remaining 10 quizzes will count for 2% of your final mark.

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](http://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central) (<http://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.