

In Progress

Please note that this Unit Profile is still in progress. The content below is subject to change.



ENAR12015 Structural Geology and Sedimentology

Term 2 - 2023

Profile information current as at 18/04/2024 11:27 am

All details in this unit profile for ENAR12015 have been officially approved by CQUUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

This unit combines structural geology and sedimentology through recognising, interpreting, and classifying major geological structures and sedimentary rocks. You will discuss the implications of rock structures for engineering and mining operations. You will also interpret geological field sections and maps and describe the sedimentology of terrestrial, coastal, deep and shallow marine environments. This unit will develop your software skills in Queensland Globe and CoalLog, or equivalent. You must complete compulsory practical activities. Refer to the Engineering Undergraduate Course Moodle site for proposed dates and locations.

Details

Career Level: *Undergraduate*

Unit Level: *Level 2*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

PHYG12003 Geological Science OR ENAR12016 Earth Science.

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 2 - 2023

No offerings for ENAR12015

Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Residential Schools

This unit has a Compulsory Residential School for distance mode students and the details are:

Click here to see your [Residential School Timetable](#).

Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

Class and Assessment Overview

Recommended Student Time Commitment

Each 6-credit Undergraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

[Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

[Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **Written Assessment**

Weighting: 20%

2. **Written Assessment**

Weighting: 20%

3. **Group Work**

Weighting: 20%

4. **Practical and Written Assessment**

Weighting: 40%

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the [CQUniversity Policy site](#).

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from Self reflection

Feedback

To seek new resources (laboratory and field) for when students resume taking this unit.

Recommendation

To lobby management for new resources.

Unit Learning Outcomes

On successful completion of this unit, you will be able to:

1. Discuss the processes that create rock structures and the implications of rock structures to engineering and mining operations
2. Interpret geological field sections and maps for the geological structures therein
3. Apply different sedimentary classification schemes and conceptualise various sedimentary environments such as continental, coastal, deep and shallow marine
4. Recognise and apply the principles of stratigraphy
5. Develop and produce professional project reports by demonstrating an effective, professional level of teamwork and communication and support collaborative peer group learning.

These are linked to the fields of knowledge that Mineral Council of Australia para-professionals (MINAD program) are required to attain to complete a MINAD sponsored associate degree.

Alignment of Learning Outcomes, Assessment and Graduate Attributes



Alignment of Assessment Tasks to Learning Outcomes

| Assessment Tasks | Learning Outcomes | | | | |
|--|-------------------|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 |
| 1 - Written Assessment - 20% | • | | | | |
| 2 - Written Assessment - 20% | | | • | • | |
| 3 - Group Work - 20% | | • | | • | • |
| 4 - Practical and Written Assessment - 40% | | • | • | | |

Alignment of Graduate Attributes to Learning Outcomes

| Graduate Attributes | Learning Outcomes | | | | |
|---|-------------------|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 |
| 1 - Communication | • | • | • | • | • |
| 2 - Problem Solving | • | • | • | • | |
| 3 - Critical Thinking | • | • | | | |
| 4 - Information Literacy | • | • | • | • | • |
| 5 - Team Work | | | | | • |
| 6 - Information Technology Competence | | • | | • | • |
| 7 - Cross Cultural Competence | | | | | |
| 8 - Ethical practice | | • | | | • |
| 9 - Social Innovation | | | | | |
| 10 - Aboriginal and Torres Strait Islander Cultures | | | | | |

Textbooks and Resources

Textbooks

ENAR12015

Prescribed

Sedimentology and Stratigraphy

Edition: Second (2009)

Authors: Nichols, G

Wiley - Blackwell

Chichester , West Sussex , United Kingdom

ISBN: 978-1-4051-9379-5

Binding: Paperback

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Prescribed

Structural Geology

Edition: 2 (2016)

Authors: Fossen, H

Cambridge

Cambridge , Cambridge , United Kingdom

ISBN: 9781107057647

Binding: Paperback

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Supplementary

CQU Lab kit

Edition: Version X (2021)

School of Engineering & Technology

Binding: Other

[View textbooks at the CQUniversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Zoom

Referencing Style

Information for Referencing Style has not been released yet.

This unit profile has not yet been finalised.

Teaching Contacts

Information for Teaching Contacts has not been released yet.

This unit profile has not yet been finalised.

Schedule

Information for Schedule has not been released yet.

This unit profile has not yet been finalised.

Assessment Tasks

Information for Assessment Tasks has not been released yet.

This unit profile has not yet been finalised.

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.