

Profile information current as at 11/05/2024 06:51 am

All details in this unit profile for ENAR12014 have been officially approved by CQUniversity 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 introduces students to the improved sustainability, safety and productivity achieved in mining through the use of new technologies. You will learn about different types of sensors used to collect data from mining equipment and how that data can be collected and analysed. You will investigate the development and optimisation of mine designs using technology developed for Australian mining operations. There will be a particular focus on data collection and analysis, blast design and truck and shovel operations. You will use online forums, tutorials and learning journals to demonstrate effective and professional levels of collaboration and communication.

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

There are no requisites for this unit.

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 1 - 2024

Online

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).

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: 30% 3. **Report** Weighting: 40% 4. **Portfolio** Weighting: 10%

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 <u>University's Grades and Results Policy</u> 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 Student feedback and self reflection.

Feedback

Include updated blasting content.

Recommendation

Update safe and efficient blasting content based on industry best practices.

Feedback from Student feedback and self assessment.

Feedback

Include updated ventilation content and assessment.

Recommendation

Update ventilation measurements and calculations content and include them in the appropriate assessment items.

Feedback from Student feedback and self assessment.

Feedback

Improve the organisation of the course content.

Recommendation

Scaffold the updated learning material to improve the student's ability to build their knowledge of mining methods and the more technical aspects of blasting and ventilation.

Unit Learning Outcomes

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

- 1. Evaluate the impact of technology on sustainability, safety and productivity in Australian mining
- 2. Investigate a data collection system for monitoring the performance of mining equipment
- 3. Apply given parameters to develop a drill and blast pattern for a coal or metalliferous deposit in a surface mining operation
- 4. Optimise truck and shovel operations in relation to surface mine layouts using appropriate software
- 5. Collaborate and communicate with lecturers and peers through the use of forums, learning journals and online

Learning Outcomes 1 and 2 have been specifically written to address the requirements of the Minerals Council of Australia. The Council has asked for the inclusion of content that covers sustainability, data collection and analysis and automation as part of a course that will develop learning pathways to the modern mining sector.

The Learning Outcomes for this unit are linked with the Engineers Australia Stage 1 Competency Standards for Professional Engineers in the areas of 1. Knowledge and Skill Base, 2. Engineering Application Ability and 3. Professional and Personal Attributes at the following levels:

Introductory

- 2.1 Application of established engineering methods to complex engineering problem solving. (LO: 1N 3N 4N)
- 2.3 Application of systematic engineering synthesis and design processes. (LO: 2N 3N 4N)
- 2.4 Application of systematic approaches to the conduct and management of engineering projects. (LO: 4N)
- 3.1 Ethical conduct and professional accountability. (LO: 5N)

- 3.3 Creative, innovative and pro-active demeanour. (LO: 1N 2N 4N 5N)
- 3.5 Orderly management of self, and professional conduct. (LO: 5N)

Intermediate

- 1.1 Comprehensive, theory-based understanding of the underpinning natural and physical sciences and the engineering fundamentals applicable to the engineering discipline. (LO: 1N 3I 4N)
- 1.2 Conceptual understanding of the mathematics, numerical analysis, statistics, and computer and information sciences which underpin the engineering discipline. (LO: 11 3I 4N)
- 1.3 In-depth understanding of specialist bodies of knowledge within the engineering discipline. (LO: 1I 2N 3N 4I)
- 1.4 Discernment of knowledge development and research directions within the engineering discipline. (LO: 11 2N 3N 4I)
- 1.5 Knowledge of engineering design practice and contextual factors impacting the engineering discipline. (LO: 1I 3I 4I)
- 1.6 Understanding of the scope, principles, norms, accountabilities and bounds of sustainable engineering practice in the specific discipline. (LO: 1I 2N 3I)
- 2.2 Fluent application of engineering techniques, tools and resources. (LO: 2N 3N 4I)
- 3.2 Effective oral and written communication in professional and lay domains. (LO: 1I 2N 3I 4N 5N)
- 3.4 Professional use and management of information. (LO: 11 2I 3I 4I 5N)

Note: LO refers to the Learning Outcome number(s) which link to the competency and the levels: N - Introductory, I - Intermediate and A - Advanced.

Refer to the Engineering Undergraduate Course Moodle site for further information on the Engineers Australia's Stage 1 Competency Standard for Professional Engineers and course level mapping information https://moodle.cqu.edu.au/course/view.php?id=1511

Alignment of Assessment Tasks to Learning Outcomes Assessment Tasks Learning Outcomes 1 2 3 4 5 1 Written Assessment - 20% 2 Written Assessment - 30% 3 Report - 40% 4 Portfolio - 10% 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	N/A Level Introductory Level Graduate Level Advanced Level Advanced										
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9 - Social Innovation											
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10 - Aboriginal and Torres Strait Islander Cultures	9 - Social Innovation	•				•					

Alignment of Learning Outcomes, Assessment and Graduate Attributes

Textbooks and Resources

Textbooks

Information for Textbooks is not yet available.

The textbooks have not yet been finalised.

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)
- Word processing software (e.g. Microsoft Word)
- Zoom capacity (web cam and microphone)
- Excel spreadsheet software

Referencing Style

All submissions for this unit must use the referencing style: <u>Harvard (author-date)</u> For further information, see the Assessment Tasks.

Teaching Contacts

Muhammad Qureshi Unit Coordinator

m.qureshi@cqu.edu.au

Schedule

W	eek	1	Introd	luction	to	Mining	-	04	Mar	202	4
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Module/Topic Chapter Events and Submissions/Topic

Reading in Week 1 Moodle Block

History of mining

Introduction to Mining

Mining terminology

Meekly Zoom Tutorial Session
Advances in mining technology

Course Introduction

Advances in mining technology Value of minerals production to

Australia

Week 2 Safe, Productive and Sustainable Mining Methods - 11 Mar 2024

Module/Topic Chapter Events and Submissions/Topic

Reading in Week 2 Moodle Block Stages of mining - development and

Weekly Zoom Tutorial Session - Mine

Development

exploitation

Safe, Productive and Sustainable

Mining Methods

Changes in Safety Changes in Productivity Mine Sustainability

Cultural and Environmental Impacts

Health and Safety

Week 3 Introduction to Blasting - 18 Mar 2024

Module/Topic Chapter Events and Submissions/Topic

Weekly Zoom Tutorial Session - Mining Types of explosives Methods Terminology Introduction to Blasting Hazards and controls **Assignment 1** Due: Week 3 Friday Detonation (22 Mar 2024) 11:00 pm AEST **Energy density** Week 4 Blast Design and Monitoring - 25 Mar 2024 Module/Topic Chapter **Events and Submissions/Topic** Reading in Week 4 Moodle Block Initiation design Weekly Zoom Tutorial Session - Mine Priming Blast Design and Monitoring Surveying Charging Fragmentation optimisation Blast Design Environmental effects of blasting Week 5 Truck and Shovel Operations - 01 Apr 2024 Module/Topic **Events and Submissions/Topic** Reading in Week 5 Moodle Block Trucks and Shovels Maintenance Truck and Shovel Operations Weekly Zoom Tutorial Session Session Fleet efficiency - Mine Planning Frameworks for modelling open-pit mining operations. Vacation Week - Non Teaching Week - 08 Apr 2024 Module/Topic Chapter **Events and Submissions/Topic** Vacation Week Vacation Week Vacation Week Week 6 New Technologies - 15 Apr 2024 Module/Topic Chapter **Events and Submissions/Topic** Reading in Week 6 Moodle Block GPS, Drones, LiDAR, Digital Photography Weekly Zoom Tutorial Session - Blast **New Technologies** Equipment Sensors, Temp, Pressure, Design Vibration, GPS Environmental Sensors, Dust, Gasses, **Images** Week 7 Sensors to Generate Mine Data - 22 Apr 2024 Module/Topic **Events and Submissions/Topic** Reading in Week 7 Moodle Block Equipment Sensors, Temp, Pressure, Weekly Zoom Tutorial Session Session Sensors to Generate Mine Data - Mine Ventilation Vibration, GPS Environmental Sensors, Dust, Gasses Week 8 Data Collection and Analysis - 29 Apr 2024 Module/Topic Chapter **Events and Submissions/Topic** Reading in Week 8 Moodle Block Weekly Zoom Tutorial Session - Mining Big data analytics and the Environment Data Collection and Analysis Artificial intelligence Machine Learning algorithms Assignment 2 Due: Week 8 Friday (3 Modelling and prediction May 2024) 11:00 pm AEST Week 9 Optimising Mining Operations - 06 May 2024 Module/Topic Chapter **Events and Submissions/Topic**

Reading in Week 3 Moodle Block

Reading in Week 9 Moodle Block Value Chain Frameworks for modelling Weekly Zoom Tutorial Session - Health open-pit mining operations. **Optimising Mining Operations** and Safety Minimising energy consumption Mine layout Mine planning Week 10 Automated Mining Methods - 13 May 2024 Module/Topic **Events and Submissions/Topic** Chapter Reading in Week 10 Moodle Block Weekly Zoom Tutorial Session -Drilling and blasting **Automated Mining Methods** Introduction to Mineral Processing Ground support Ore removal Week 11 Introduction to Ventilation - 20 May 2024 Module/Topic Chapter **Events and Submissions/Topic** Reading in Week 11 Moodle Block Terminology Weekly Zoom Tutorial Session -Introduction to Ventilation Mine ventilation **Metallurgical Processing** Heat and air cooling power Dust and gases Week 12 Mine Ventilation Design - 27 May 2024 Module/Topic Chapter **Events and Submissions/Topic** Reading in Week 12 Moodle Block The flow of air in ducts Weekly Zoom Tutorial Session -Mine Ventilation Design Ventilation pressure and air power Hydrometallurgical Processing Ventilation fans Ventilation networks Review/Exam Week - 03 Jun 2024 Module/Topic Chapter **Events and Submissions/Topic** Assignment 3 Due: Review/Exam No module or topic for review week. No reading required. Week Wednesday (5 June 2024) 11:45 pm AEST Exam Week - 10 Jun 2024 Module/Topic Chapter **Events and Submissions/Topic** No module or topic for exam week. No No reading required. No exam. exam.

Assessment Tasks

1 Assignment 1

Assessment Type

Written Assessment

Task Description

This assessment will strengthen your understanding of the impact of technology on the social, environmental and economic aspects of Australian mining. Carefully review the material provided in Moodle and answer the questions in the assignment.

- ·Review the detailed assignment questions found in Moodle
- Review relevant literature, including textbooks and government websites, to understand the terminology, costs, processes and procedures associated with mining.
- Research recent scientific journal articles from the last three years
- ·Complete the assignment questions making effective use of the available resources

Submit the assignment electronically using Word, Excel and pdf documents, as required. Submit the assignment through

the assessment link on Moodle.

Note: All submissions are processed using the similarity detection software Turnitin. CQU values academic integrity. Cite and reference reliable sources using the Harvard Referencing Style Guide.

Assessment Due Date

Week 3 Friday (22 Mar 2024) 11:00 pm AEST

Submit electronically via Moodle with your name, unit code and assignment number i.e. NAME_ENAR12014_Assignment 1

Return Date to Students

Week 5 Friday (5 Apr 2024)

Assignments will be returned with feedback within two weeks.

Weighting

20%

Minimum mark or grade

45%

Assessment Criteria

Use clear, coherent sentences.

Where appropriate, include clearly labelled diagrams.

Ensure photographs, pictures and diagrams are correctly labelled, introduced and referred to within the answer's text. Correctly cite and reference sources of information using the Harvard referencing style guide. Include a list of references at the end of the assignment.

Use mining terminology correctly.

Refer to assignment-specific assessment criteria listed in Moodle for further details.

Referencing Style

• Harvard (author-date)

Submission

Online

Submission Instructions

Use Turnitin and Moodle to submit assignments.

Learning Outcomes Assessed

- Evaluate the impact of technology on sustainability, safety and productivity in Australian mining
- Investigate a data collection system for monitoring the performance of mining equipment

2 Assignment 2

Assessment Type

Written Assessment

Task Description

This assessment will strengthen the student's understanding of the technical aspects of blast design and truck and shovel operations.

- Carefully review the material provided in moodle and answer the questions detailed in the assignment.
- Review relevant literature, including Original Equipment Manufacturers (OEM) and government websites, to understand equipment capabilities, processes and procedures associated with blasting and truck and shovel operations.
- Research recent scientific journal articles from the last three years
- Complete the assignment questions making effective use of the available resources
- Review the detailed assignment questions found in Moodle

Submit the assignment electronically in Word, Excel and pdf documents. Submit the work through the assessment link on Moodle.

Note: All submissions are processed using the similarity detection software Turnitin. CQU values academic integrity. Cite and reference reliable sources using the Harvard Referencing Style Guide.

Assessment Due Date

Week 8 Friday (3 May 2024) 11:00 pm AEST

Submit electronically via Moodle with your name, unit code and assignment number i.e.

NAME ENAR12014 Assignment 2

Return Date to Students

Week 10 Monday (13 May 2024)

Assignments will be returned with feedback within two weeks.

Weighting

30%

Minimum mark or grade

45%

Assessment Criteria

Use clear, coherent sentences.

Where appropriate, include clearly labelled diagrams.

Ensure photographs, pictures and diagrams are correctly labelled, introduced and referred to within the answer's text. Ensure formulae and workings are shown in sufficient detail to clearly explain how the answer was derived.

Answers should show correct units of measure, e.g. (m, MN, m², tonnes, m³, o⁰C, etc.).

Correctly cite and reference sources of information. Include a list of references at the end of the assignment.

Use mining terminology correctly.

Refer to assignment-specific assessment criteria listed in Moodle for further details.

Referencing Style

• Harvard (author-date)

Submission

Online

Submission Instructions

Use Turnitin and Moodle to submit assignments.

Learning Outcomes Assessed

 Apply given parameters to develop a drill and blast pattern for a coal or metalliferous deposit in a surface mining operation

3 Assignment 3

Assessment Type

Report

Task Description

This assessment will strengthen student understanding of the technical aspects of sensors, data collection and analysis, automated mining methods, ventilation and mine optimisation. Carefully review the material provided in Moodle and answer the guestions in the assignment.

- Review relevant literature, including textbooks, online material and government websites, to understand critical factors to be measured and addressed when improving mine productivity, safety and sustainability.
- Research recent and relevant scientific journal articles from the last three years.
- Complete the assignment questions making effective use of the available resources.

Submit the assignment electronically using Word, Excel and pdf documents. Submit the work through the assessment link on Moodle.

Note: All submissions are processed using the similarity detection software Turnitin. CQU values academic integrity. Cite and reference reliable sources using the Harvard Referencing Style Guide.

Assessment Due Date

Review/Exam Week Wednesday (5 June 2024) 11:45 pm AEST

Submit electronically via Moodle with your name, unit code and assignment number i.e.

NAME_ENAR12014_Assignment_3

Return Date to Students

Assignments will be returned with feedback within two weeks.

Weighting

40%

Assessment Criteria

Use clear, coherent sentences.

Where appropriate, include clearly labelled diagrams.

Ensure photographs, pictures and diagrams are correctly labelled, introduced and referred to within the answer's text. Ensure formulae and workings are shown in sufficient detail to clearly explain how the answer was derived.

Answers should show correct units of measure, e.g. (m, MN, m², tonnes, m³, o⁰C, etc.).

Correctly cite and reference sources of information. Include a list of references at the end of the assignment. Use mining terminology correctly.

Refer to assignment-specific assessment criteria listed in Moodle for further details.

Referencing Style

• Harvard (author-date)

Submission

Online

Submission Instructions

Use Turnitin and Moodle to submit assignments.

Learning Outcomes Assessed

Optimise truck and shovel operations in relation to surface mine layouts using appropriate software

4 Learning Portfolio

Assessment Type

Portfolio

Task Description

The "Learning Portfolio" provides an opportunity to reflect on learning. The Learning Portfolio records any work and reading that is relevant to the learning outcomes detailed in the course profile. Record and demonstrate evidence of all of the learning outcomes detailed for this unit, particularly teamwork, cultural sensitivity and ethical values. The Learning Portfolio provides an opportunity to discuss learning experiences online. It is also a record of websites, texts and journal articles that may be useful for future reference.

There are three sections to the Learning Portfolio:

- 1. Study Diary
- 2. Learning Reflections
- 3. Interactions

This assessment does not require a high-quality presentation. It just needs to demonstrate evidence of work undertaken towards weekly completion of the unit.

Assessment Due Date

An updated version of your learning portfolio will be submitted electronically via Moodle with assignment 1 in week 3, assignment 2 in week 7 and assignment 3 in Review/Exam week. Include your name, unit code and assignment number i.e. NAME_ENAR12014_Learning_Portfolio_AssignmentNumber

Return Date to Students

Learning Portfolio feedback will be returned within two weeks of submission.

Weighting

10%

Assessment Criteria

The learning portfolio will contain,

- a) regular weekly updates from week 1 to week 12,
- b) evidence of research and reading beyond the course material,
- c) mapping of course and learning material to the learning outcomes,
- d) evidence of interactions with academic staff, peers, or work colleagues related to this unit.

An updated version of the learning portfolio will be submitted with each assignment.

Referencing Style

• Harvard (author-date)

Submission

Online

Submission Instructions

Turnitin will be used to check submissions. Avoid academic integrity issues. Use the link in moodle to submit assignments.

Learning Outcomes Assessed

 Collaborate and communicate with lecturers and peers through the use of forums, learning journals and online tutorials.

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the **Student Academic Integrity Policy and Procedure**. This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?

For academic advice and guidance, the <u>Academic Learning Centre (ALC)</u> can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?



Be Honest

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own



Seek Help

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)



Produce Original Work

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem