ENEP12008 *Engineering Leadership*
Term 2 - 2024

Profile information current as at 13/05/2024 07:45 am

General Information

Overview

As a student in the final year of your Bachelor of Engineering course, you will identify and analyse leadership and engineering management techniques applied within industry-based teams, and generate a personal vision for your leadership style. You will also document safety and environmental management systems applied in engineering workplaces, with a focus on cultural aspects. You will examine ethical principles, codes of ethics and apply approaches to ethical decision making. You will develop a three-year career plan outlining professional, technical, and personal aspects of career development. In preparation for this unit, it is strongly recommended that you have undertaken industry practice experience in a workplace, either via Industry Practice unit(s) or vacation employment.

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 2 - 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

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 SUTE Comments

Feedback

Marking rubrics for each assessment was hard to locate as they were not given with each assessment.

Recommendation

Marking rubrics should be included in the assessment guidelines.

Feedback from SUTE Comments

Feedback

Some unit content needs to be updated to reflect the changes in technology used at workplaces.

Recommendation

Unit content should be reviewed and updated as required to reflect contemporary engineering practices.

Feedback from SUTE Comments

Feedback

Unit requirements were not clear.

Recommendation

Week one tutorial should focus on the unit requirements.

Feedback from Unit Coordinator Reflections

Feedback

Some topics are relevant to leadership in contemporary engineering organisations.

Recommendation

Topics of project leadership and using leadership as a driver of sustainability should be added to the unit content.

Unit Learning Outcomes

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

1. Identify and analyse leadership and engineering management techniques
2. Generate a personal leadership vision
3. Document safety and environmental management systems applied in engineering workplaces, with a focus on cultural aspects
4. Apply professional judgment, standard approaches, and codes of ethics to decision making within a business environment
5. Develop a three-year career plan outlining professional, technical, and personal aspects of career development.

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:

Intermediate

1.5 Knowledge of engineering design practice and contextual factors impacting the engineering discipline. (LO: 1I 2I 3I)

2.1 Application of established engineering methods to complex engineering problem solving.

(LO: 1I 3I 5I)

2.3 Application of systematic engineering synthesis and design processes. (LO: 5I)

3.4 Professional use and management of information. (LO: 1I 3I)

3.6 Effective team membership and team leadership. (LO: 2I 3I)

Advanced

1.4 Discernment of knowledge development and research directions within the engineering discipline. (LO: 1I 3A)

1.6 Understanding of the scope, principles, norms, accountabilities, and bounds of sustainable engineering practice in the specific discipline. (LO: 3A)

3.1 Ethical conduct and professional accountability. (LO: 2I 4A)

3.2 Effective oral and written communication in professional and lay domains. (LO: 2I 3A 5A)

3.3 Creative, innovative, and pro-active demeanour. (LO: 2A 5I)

3.5 Orderly management of self, and professional conduct. (LO: 2A 4A 5A)

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 Learning Outcomes, Assessment and Graduate Attributes

— N/A Level   ° Introductory Level   ° Intermediate Level   ● Graduate Level   ° Professional Level   ° Advanced Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes				
	1	2	3	4	5
1 - Report - 30%	●		●		
2 - Case Study - 30%				●	
3 - Portfolio - 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

Information for Textbooks and Resources has not been released yet.
This information will be available on Monday 17 June 2024

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.

This unit profile has not yet been finalised.