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

ENAE12006 *Electrical Machines and Drives*
Term 1 - 2027

Profile information current as at 12/11/2026 11:53 am

All details in this unit profile for ENAE12006 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
In this unit, you will be introduced to different types of electrical machines that convert electrical energy to other forms of energy. You will cover construction and operational characteristics of DC and AC electrical machines. You will also get a basic understanding of machine protection and control schemes. You will work, learn and communicate ethically and professionally, to investigate and solve problems and present solutions. You will communicate technical aspects and operation of electrical machines and clearly document solutions to problems. In this unit, you must complete compulsory practical activities. Refer to the Engineering Undergraduate Course Moodle site for proposed dates.

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
Pre-requisite: ENEE12015 Electrical Power Engineering OR ENAE12007 Electrical Power Systems
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 - 2027
- Mixed Mode

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

Information for Class and Assessment Overview has not been released yet.
This information will be available on Monday 11 January 2027

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
- Academic Progression Policy and Procedure
- Student Refund and Credit Balance Policy and Procedure
- 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 Unit Coordinator Reflection

Feedback
Weekly Zoom Help Sessions and regular Moodle announcements supported student engagement in an online learning environment.

Recommendation
Weekly Zoom Help Sessions and regular Moodle announcements should be provided to maintain opportunities for student interaction, clarification of unit requirements, and ongoing engagement throughout the term.

Feedback from Unit Coordinator Reflection

Feedback
Assessment design should be reviewed in light of the increasing availability and use of generative AI tools.

Recommendation
Assessment tasks should be reviewed to ensure they continue to effectively evaluate student learning outcomes in an environment where generative AI tools are readily available, and to identify any changes required to maintain academic integrity and authentic assessment.

Unit Learning Outcomes

Information for Unit Learning Outcomes has not been released yet.
This information will be available on Monday 11 January 2027

Alignment of Learning Outcomes, Assessment and Graduate Attributes

Information for Alignment of Learning Outcomes, Assessment and Graduate Attributes has not been released yet.
This information will be available on Monday 11 January 2027

Textbooks and Resources

Information for Textbooks and Resources has not been released yet.
This information will be available on Monday 11 January 2027

Academic Integrity Statement

Information for Academic Integrity Statement has not been released yet.
This unit profile has not yet been finalised.