

# School of Engineering and Technology

## CG21 Bachelor of Engineering Technology

### Electrical Major

#### Electrical Power Plug-In

#### Full Time Study Plan – Term 1 2019 onwards

Year	Unit Code	Unit Name	CP	Requisites	Ad. Stand	Comp Term /Status
Year 1	ENEG11005 *	Fundamentals of Professional Engineering	12			T1 2019
	MATH11218	Applied Mathematics	6	Anti-Req: MATH12223 or MATH12224		T1 2019
	ENEG11006 **	Engineering Statics	6			T1 2019
	ENEG11005 *	Fundamentals of Professional Engineering	12			T2 2019
	MATH11218	Applied Mathematics	6	Anti-Req: MATH12223 or MATH12224		T2 2019
	ENEG11006 **	Engineering Statics	6			T2 2019
	ENEG11005 *	Fundamentals of Professional Engineering	12			T2 2019
Year 2	ENEG12007	Design and Project Management	6	Pre-Req: See <a href="#">Handbook</a>		T1 2020
	ENEE12014 * **	Electrical Circuit Analysis	6	Pre-Req: (PHYS11185 or ENEG11009) and MATH11219		T1 2020
	ENEE13020 *	Digital Electronics	6	Pre-Req: (PHYS11185 or ENEG11009) and (MATH11218 or MATH11160)		T1 2020
	MATH12222	Advanced Mathematical Applications	6	Pre-Req: MATH11219		T1 2020
	ENEE12015 *	Electrical Power Engineering	6	Pre-Req ENAE12013 or ENEE12014		T2 2020
	ENEE12016 *	Signals and Systems	6	Pre-Req ENEE12014		T2 2020
	ENEE13018 *	Analogue Electronics	6	Pre-Req See <a href="#">Handbook</a>		T2 2020
	MATH12225	Applied Computational Modelling	6	Pre-Req: MATH12222 or MATH13218		T2 2020
Year 3	ENEE13016	Power System Protection	6	Pre-Req: ENEE12015 or ENEE12004 or ENTE12005		T1 2021
	ENEE13021 *	Power System Analysis and Design	6	Pre-Req: ENEE12015		T1 2021
	ENEE13022	Communication Systems	6	Pre-Req: (ENEE13018 and ENEE13020) or ENEX12002		T1 2021
	ENTG13002	Technology Project Planning	6	Pre-Req-Req-Req: See <a href="#">Handbook</a>		T2 2021
	ENTG13001	Technology Project Implementation	6	Pre-Req: ENTG13002		T2 2021
	ENEX13002 *	Power Electronics	6	Pre-Req ENEX12002 or (ENEE13018 and ENEE13020) and (ENEX12001 or ENEE12015)		T2 2021
	ENEE14007 *	Electrical Machines and Drives Applications	12	Pre-Req: (ENEG12004 or ENEG12002 or ENEG12007) and ENEE12015		T2 2021
<b>Total Units: 22</b>			<b>144</b>			

\*\* Available over Term 3

\* Compulsory Residential School

✓ Completed

CP = Credit Points

For information on the terminology used in the above study plan, please refer to the Glossary on the last page of this document.

## MORE DETAILS:

To satisfy the requirements for the award of CG21 Bachelor of Engineering Technology (Electrical – Electrical Power), students must complete 22 units (144 credit points).

### Recommended Study Schedule

Students should complete units in an order that is as close as possible to the recommended structure set out in this study plan. Students should concentrate on completing all first year units before moving on to second year units, and all second year units before moving on to third year units.

### Course Structure Requirements

In the CG21 Bachelor of Engineering Technology (Electrical – Electrical Power), students are required to complete the following course structure:

- 7 Core Units
- 10 Major Units
- 5 Plug-In Units

### Course Duration Requirements

Full Time Duration                      3 years full time

Part Time Duration                      6 years part time

Please also note that if you fail units or take a Leave of Absence, your course duration and completion timeframe may be extended.

**Interim Awards**                              Interim Awards do not exist for this course

**Exit Awards**                                      Exit Awards do not exist for this course

### Professional Accreditation

This course is accredited by Engineers Australia.

### Deferment/Leave of Absence

Domestic students in the Bachelor of Engineering Technology (Electrical) degree are permitted to defer the initial offer of their degree for a maximum of 12 months before their offer is withdrawn. Furthermore, domestic students may also take an approved Leave of Absence (LOA) once they have commenced their course of study however only a maximum of 12 months can be granted without requesting further approval from the Head of Course.

You can apply for a deferment or LOA [here](#).

International students are not permitted to defer their initial offer or take a Leave of Absence unless otherwise discussed with their Home Campus.

## Credit Transfer

If you have undertaken study in the last ten years, or have relevant in-formal or non-formal learning, you may be eligible for credit towards your course. Please note that some courses have reduced timeframes within which prior study remains eligible for credit. Please refer to the [CQUni Handbook](#) for specific credit time limits relating to your course.

To submit an application for credit, please refer to the [Credit Calculator](#) or contact the Academic Pathways Team via their email [credit@cqu.edu.au](mailto:credit@cqu.edu.au). Further information about the credit process can also be found on the [Credit for Prior Learning](#) webpage.

Credit applications should be submitted at least four (4) weeks before the relevant term commences. Applications must be complete with all supporting documentation to be assessed by CQUniversity. CQUniversity cannot obtain documents from other institutions, organisations or individuals.

## Residential Schools

Students studying via Distance education may be required to attend compulsory on-campus residential schools and have been marked with an asterisk (\*) in the above study plan.

The units that require a compulsory residential school must be enrolled in as “Mixed Mode” under the unit availabilities in MyCentre.

For more information on the various units containing residential schools, please refer to the following link in the CQUni Handbook: <https://handbook.cqu.edu.au/resschools/index> or contact the Unit Coordinator directly.

Unit Coordinator contact information can be found via the Unit Profiles in the following link: <https://my-courses.cqu.edu.au/pub/profiles/search>

## Practicum/Work Integrated Learning (WIL) Requirements

Students are required to complete a total of 6 weeks industry practice.

### Engineering practice (work experience) and report

An integral part of the course, and a requirement of Engineers Australia for course accreditation, is a minimum of six weeks of approved work experience in an engineering environment.

As proof of work experience, students will be required to submit a formal report indicating the type of work done, the degree of responsibility involved, the person(s) to whom the student was directly responsible, and the general activities of the employer. This report should be certified by the employer. Refer to 'Engineering Practice' document located [here](#) for further information on work experience documentation required.

You should ensure that you submit your report in a timely manner prior to your expected graduation date. You will be assessed for eligibility to graduate immediately following Certification of Grades in your final Term of study. Please allow a 2 week turn-around time for assessment of your report. Failure to meet this deadline may result in a delay to your graduation date.

**Please note:** That even if you are working full-time in industry whilst studying, you must still submit a report. However, if you are carrying out appropriate engineering work, you can use your normal employment as the basis of your report.

If you have any questions about your course, please contact the Course Advice Team: [spc@cqu.edu.au](mailto:spc@cqu.edu.au) or by visiting <http://handbook.cqu.edu.au/eforms/index> and filling out the 'Ask a Course Advisor' e-form.

**PLEASE CHECK THE CQUNI HANDBOOK FOR ALL TERM AVAILABILITIES AND PRE-REQUISITES AS THEY MAY CHANGE FROM YEAR TO YEAR <http://handbook.cqu.edu.au>**

## GLOSSARY

- **Course**: A course is the combination of units that contribute towards either a CQUniversity award qualification or non-award study.
- **Course Code**: A course code identifies the specific course a student may be studying at CQUniversity.
- **Unit**: A unit is the individual subject students must complete in order to graduate from their course.
- **Unit Code**: A unit code identifies a specific unit that a student is enrolled in under their course.
- **Pre-Requisite (Pre-Req) Unit**: A pre-req unit is a unit which students must pass before being allowed to enrol in the subsequent unit.
- **Co-Requisite (Co-Req) Unit**: A co-req unit is a unit that must be studied at the same time as another unit.
- **Anti-Requisite (Anti-Req) Unit**: An anti-req unit is an old unit that has been replaced by a new unit and students are not permitted to study the old unit.
- **Credit Points (CP)**: Credit Points are the numerical value of a unit which contributes to the total Credit Points for a course.
- **Core Unit**: A core unit is a compulsory unit that a student must study to meet the requirements of their course.
- **Elective Unit**: An elective unit is a unit within a course that is not compulsory and students may have a choice in what unit they study, provided it meets the elective requirements of their course.
- **Major**: A major is a specific area within a course where a student specialises in and is normally made up of 8 units for undergraduate courses, and 4 units for postgraduate courses. Not all courses have majors.
- **Double Major**: A double major is where students specialise in 2 areas of study and is normally made up of 16 units. Double majors are normally only available in undergraduate courses.
- **Minor**: Like a major, a minor is a specific area within a course where a student specialises and is normally made up of 4 units.
- **Term**: A specified period of time for higher education units in which teaching, learning and assessment occurs. CQUniversity offers 3 Academic Terms per year: Term 1, Term 2 and Term 3.