

School of Engineering and Technology



CG21 Bachelor of Engineering Technology (Civil) Full Time Course Planner – Term 2 2019 onwards

Year	Unit Code	Unit Name	CP	Requisites	Adv. Stand	Comp Term /Status
Year 1	ENEG11008**	Materials for Engineers	6			T2 2019
	ENEG11009**	Fundamentals of Energy and Electricity	6			T2 2019
	MATH11218	Applied Mathematics	6	Anti-Req: MATH12223 or MATH12224		T2 2019
	ENEG11006	Engineering Statics	6			T2 2019
	MATH11219	Applied Calculus	6	Pre-Req MATH11218		T2 2019
	ENEG11005**	Fundamentals of Professional Engineering	12			T1 2020
	ENEC12009	Engineering Surveying	6	Pre-Req MATH11218 OR MATH11160		T1 2020
	MATH12222	Advanced Mathematical Applications	6	Pre-Req MATH11219		T1 2020
Year 2	ENEC12008	Geotechnical Engineering	6	Pre-Req Refer To Handbook		T2 2020
	MATH12225	Applied Computational Modelling	6	Pre-Req MATH12222 OR MATH13218		T2 2020
	ENEC12012**	Stress Analysis	6	Pre-Req Refer To Handbook		T2 2020
	ENEG11007	Engineering Industry Project Investigation	6	Pre-Req ENEG11005 or ENEG11001		T2 2020
	ENEC12010**	Hydraulics and Hydrology	6	Pre-Req Refer To Handbook		T1 2021
	ENEG12007	Design and Project Management	6	Pre-Req Refer To Handbook		T1 2021
		<i>See Plug In Choice (Page 4)</i>				T1 2021
Year 3		<i>See Plug In Choice (Page 4)</i>				T2 2021
		<i>See Plug In Choice (Page 4)</i>				T2 2021
	ENEC12011	Transport Systems	6	Pre-Req Refer To Handbook		T2 2021
	ENTG13002	Technology Project Planning	6	COND: completion of all prior units in nominal course structure – to be checked by HOC or Unit Coord. prior to enrolment.		T2 2021
		<i>See Plug In Choice (Page 4)</i>				T1 2022
	ENTG13001	Technology Project Implementation	6	Pre-Req ENTG13002		T1 2022
		Elective (<i>See List on Page 4</i>)	6			T1 2022
Total Units: 22			144			

** Available over Term 3
 * Compulsory Residential School
 # Optional Residential School
 ^ Alternate Years
 ✓ Completed
 CP = Credit Points

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

Important Note: This Course Planner has no formal or legal status but is used to assist students in planning their course. Students should refer to the official University database and/or University transcripts to ensure they are meeting course requirements.

Last Updated: 08/01/2019

MORE DETAILS:

To satisfy the requirements for the award of CG21 Bachelor of Engineering Technology (Civil – Municipal Transportation), students must complete 21 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 course planner. 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 (Civil – Municipal Transportation), students are required to complete the following course structure:

- 7 Core Units
- 10 Major Units
- 3 Plug-In Units
- 1 Elective Unit

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 (Civil) 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. 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.

Due to accreditation requirements, the < Insert Course Name > does not currently permit credit to be awarded. **(Delete if not relevant)**

Residential Schools

Students studying via Online mode may be required to attend compulsory on-campus residential schools and have been marked with an asterisk (*) in the above course planner.

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>

Electives

Students in the CG21 Bachelor of Engineering Technology course must successfully complete 1 Elective unit. Students can determine their Unit Level as outlined below:

For Civil Students:

- MATH11247 Foundation Mathematics (please note that this unit can only be done at the commencement of the course, before completing any other Maths units) (T1)
- BLAR12038 Building Industry Contracts (T1)
- BLAR13047 Construction Economics 1 (T1)
- BLAR13035 Building Contract Administration (T2)
- BLAR13040 Building Life Cycle Maintenance (T2)
- BLAR11039 Building Law & Regulations (T3)
- ENEM13012 Maintenance Engineering (T2)
- ENEG13001 Humanitarian Engineering Project (T2 & T3)

Undergraduate Level One Unit Codes begin with a “11” (e.g. MRKT11029)

Undergraduate Advanced Level Unit Codes begin with either a “12”, “13”, or “19” (e.g. MGMT19128)

Plug-In Choices

Municipal Transportation Plug-in Choices (30 units of Credit)			Requisites
Term 1	ENEC13014	Water Supply and Wastewater Technology	Pre-Req ENEC12010
Term 2	ENEC14017	Water Resources Engineering	Pre-Req ENEC13009 or ENEC12010
Term 1	ENEC14016	Traffic and Transportation Engineering	Pre-Req Refer To Handbook
And			
+++		One approved elective	

Structural Plug-in Choices (30 units of Credit)			Requisites
Term 1	ENEC13015	Steel and Timber Design	Pre-Req Refer To Handbook
Term 2	ENEC13017	Advanced Structural Analysis	Pre-Req ENEG11006 and ENEC12012
Term 2	ENEC13016	Concrete Technology and Design	Pre-Req Refer To Handbook
Term 1	ENEC14014	Structural and Geotechnical Design	Pre-Req Refer To Handbook
And			
+++		One approved elective	

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 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.