## School of Engineering and Technology

### CC32 Bachelor of Engineering (Honours) & Diploma of Professional Practice (Co-Op Engineering)

#### Civil Major

Full Time Study Plan – Term 1 2019 onwards

<table>
<thead>
<tr>
<th>Year</th>
<th>Unit Code</th>
<th>Unit Name</th>
<th>CP</th>
<th>Requisites</th>
<th>Ad. Stand</th>
<th>Comp Term/Status</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>ENEG11005 *</td>
<td>Fundamentals of Professional Engineering</td>
<td>12</td>
<td>Anti-Req MATH12223 or MATH12224</td>
<td>T1 2019</td>
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<tr>
<td></td>
<td>MATH11218</td>
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<td>6</td>
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<tr>
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<td>ENEG11006 **</td>
<td>Engineering Statics</td>
<td>6</td>
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<td></td>
<td>ENEG11007</td>
<td>Engineering Industry Project Investigation</td>
<td>6</td>
<td>Pre-Req ENEG11005 or ENEG11001</td>
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<td></td>
<td>ENEG11008 *</td>
<td>Materials for Engineers</td>
<td>6</td>
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<td>T2 2019</td>
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<tr>
<td></td>
<td>ENEG11009 *</td>
<td>Fundamentals of Energy and Electricity</td>
<td>6</td>
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<td>MATH11219 **</td>
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<td>ENEG12007</td>
<td>Design and Project Management</td>
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<td>ENEC12009 *</td>
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<td>ENEC12010 *</td>
<td>Hydraulics and Hydrology</td>
<td>6</td>
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<td>ENEC12012 *</td>
<td>Stress Analysis</td>
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<td>(ENEG11006 or ENEC12007) and (MATH11219) and (ENEG11008 or ENEG12005)</td>
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<td>ENEP11007</td>
<td>Engineering Employment Preparation</td>
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### Study Plan Summary

**Year 3**
- **ENEP11006**: Industry Practice 1, 12 CP, Pre-Req ENEP11007, T1 2021
- **Civil Elective (See Notes on Page 5)**, 6 CP, T1 2021
- **ENEC13017**: Advanced Structural Analysis, 6 CP, Pre-Req: ENEG11006 and ENEC12012, T2 2021
- **ENEC13016 ***: Concrete Technology and Design, 6 CP, Pre-Req: ENEC12012 or ENEC13010 and MATH11218, T2 2021
- **ENEC14017**: Water Resources Engineering, 12 CP, Pre-Req ENEC13009 or ENEC12010, T2 2021
- **ENEP11010**: Industry Practice Review, 6 CP, Pre-Req ENEP11006, T2 2021

**Year 4**
- **ENEC13014**: Water Supply and Wastewater Technology, 6 CP, Pre-Req ENEC12010, T1 2022
- **ENEC13015**: Steel & Timber Design, 6 CP, Pre-Req (ENEC12012 or ENEC13010) & MATH11218, T1 2022
- **ENEC14016 ***: Traffic and Transportation Engineering, 12 CP, Pre-Req MATH11219 and ENEC12008, T1 2022
- **ENEP12007**: Engineering Business Fundamentals, 6 CP, T1 2022
- **ENEP12010**: Industry Practice 2, 12 CP, Pre-Req ENEP11001 and ENEP12007, T2 2022
- **ENEG14003**: Engineering Project Planning, 6 CP, Pre-Req: Completion of all prior units in the nominal course structure - to be checked by Head of Course or Unit Coordinator during facilitation of the enrolment process, T2 2022
- **Civil Elective (See Notes on Page 5)**, 6 CP, T2 2022

**Year 5**
- **ENEC14014 ***: Structural and Geotechnical Design, 12 CP, Pre-Req: See CQUni Handbook, T1 2023
- **ENEG14005**: Engineering Project Implementation, 12 CP, Pre-Req ENEG14003, T1 2023
- **ENEP12008**: Engineering Supervisor Development, 6 CP, Pre-Req ENEP12010 or 12 weeks industry practice, T1 2023

**Total Units: 32**

**Notes:**
- **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.

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MORE DETAILS:

To satisfy the requirements for the award of CC32 Bachelor of Engineering (Honours) (Civil) and Diploma of Professional Practice (Co-Op Engineering), students must complete 32 units (234 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 CC32 Bachelor of Engineering (Honours)(Civil) and Diploma of Professional Practice (Co-Op Engineering), students are required to complete the following course structure:

- 7 Core Units
- 6 Diploma of Professional Practice Units
- 17 Major Units
- 2 Elective Units

Course Duration Requirements

Full Time Duration 4.5 years full time

Part Time Duration 9 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

CL42 Diploma of Engineering Studies
CC31 Bachelor of Engineering (Honours)

Exit Awards

CL42 Diploma of Engineering Studies
CC31 Bachelor of Engineering (Honours)

Professional Accreditation

All Majors in this course are accredited by Engineers Australia as meeting Stage 1 Competency Standard for Professional Engineer. See: www.engineersaustralia.org.au

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Deferment/Leave of Absence

Domestic students in the Bachelor of Engineering (Honours) and Diploma of Professional Practice (Co-Op Engineering) 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 CQUUniversity. CQUUniversity 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 CQUHandbook: 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 CC32 Bachelor of Engineering (Honours) (Civil) and Diploma of Professional Practice (Co-Op Engineering) course must successfully complete a total of 2 Elective units.

For Civil Students (Select a maximum of two units):

- 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 (T1)
- ENEG13001 Humanitarian Engineering Project (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)

Practicum/Work Integrated Learning (WIL) Requirements

When undertaking the following units, students will also undertake an industry work placement:

- ENEP11006 Industry Practice 1 – 24 weeks industry placement
- ENEP12010 Industry Practice 2 – 24 weeks industry placement

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

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**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 specializes 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 specialize 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 specializes 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.