



Bachelor of Engineering (Honours) in Civil Engineering (Domestic students)

Program code

1411

Commencing in

For Continuing Students Only

Available at

Duration

4 years full-time

8 years part-time

Credit points

320

Degree requirements: Students who started Semester 2 - 2015

For Domestic and those International students not required to complete the English Language Enhancement course

To be eligible for the award of *Bachelor of Engineering (Honours) in Civil Engineering [BEng(Hons)]*, a student must acquire 320 credit points as prescribed below:

- gain 300 credit points as prescribed
- gain 20 credit points for **Undergraduate free-choice elective/s**
- complete no more than 120 credit points at first year level
- complete a minimum of 80 credit points of courses at final year level
- complete a minimum of 12 weeks (60 days) of approved experience in an engineering practice environment (or a satisfactory alternative) during their degree studies.

Exit point

To be eligible to exit the Bachelor of Engineering (Honours) in Civil Engineering program with the Bachelor of Engineering Science award, a student must acquire 240 credit points as prescribed below:

- at least 210 credit points from the Bachelor of Engineering (Honours) in Civil Engineering course list including all first year level and second year level core courses
- no more than 30 credit points of **Undergraduate free-choice elective/s**
- at least 60 credit points of courses at third year level or higher
- no more than 100 credit points of courses at first year level.

Note: Students undertaking the **Bachelor of Engineering (Honours) in Electronic and Biomedical Engineering (1424)** or **Bachelor of Engineering (Honours) in Software Engineering (1478)** will need to have completed some Year 4 courses to meet the above requirements.

To exit, a student should apply for a program transfer.

Honours

Classification of Honours

Bachelor of Engineering (Honours) in Civil Engineering

Honours in this program is awarded on the basis of sustained performance in the final two years of the program and in accordance with the Honours Weighted Average (HWA). The Honours Weighted Average is calculated using specified courses (third and fourth year level including the research component) which are referred to as the **Honours Calculable Courses (HCC)** and these courses are identified in the course lists within the program structure.

The Honours Weighted Average is calculated by multiplying the 120 credit points of Honours Calculable Courses by the percentage mark and the relevant weighting assigned for each course, divided by 120 credit points multiplied by the relevant weighting factor.

Cut-offs for Honours Classification

- **Class I Honours:**
 - Overall HWA Range: 80 - 100%
 - Minimum Thesis Mark - 80%
- **Class IIA Honours:**
 - Overall HWA Range: 70 - 79%
 - Minimum Thesis Mark - 70%
- **Class IIB Honours:**
 - Overall HWA Range: 55 - 69.9%
 - Minimum Thesis Mark - 60%
- **Class III Honours:**
 - Overall HWA Range: < 54.9%
 - Minimum Thesis Mark - 50%

Australian Qualifications Framework (AQF) Level and Type

The **Australian Qualifications Framework (AQF)** is the national policy for regulated qualifications in Australian education and training. This qualification is accredited as an AQF Level 8 - Bachelor Honours Degree.

English Language Enhancement

Domestic students enrolled in this program whose first language is not English may complete the following **English Language Enhancement Course** as an elective.

- **5903LHS Language and Communication for Sciences**

Students whose first language is English are not permitted to undertake this course.

Program learning outcomes

Program learning outcomes

Program Learning Outcomes communicate to the community the value of the Griffith educational experience as benchmarked against national qualification standards.

Program Learning Outcomes for this award describe the knowledge, skills and the application of knowledge and skills you will acquire through studying the Griffith program of your choice.

Course list: Students starting Semester 2 - 2015

Course offering information in program structures is a guide only. Please check the actual offering information in the Course Catalogue.

Note: Students must check the prerequisite and incompatible requirements before selecting any course within this program.

Course selection for students required to complete the English Language Enhancement course

Students entering the program in **Trimester 2** will:

- complete **5903LHS Language and Communication for Sciences** in their first trimester of study in place of **1006ENG Design and Professional Skills** (not offered from 2017) or **1022ENG Engineering Design Practice** (offered from 2017) and complete **1006ENG Design and Professional Skills** (not offered from 2017) or **1022ENG Engineering Design Practice** (offered from 2017) in either Year 2 and
- complete 10 credit points less of **Undergraduate free-choice elective/s**.

Year 1

Students must complete the following courses:

Semester	Course code	Requirement	Course title	CP
Tri 2	1501ENG		Engineering Mechanics	10
Tri 2	1005ENG		Electronics for Engineers (not offered from 2017)	10
			OR	
Tri 2,3	1301ENG		Electric Circuits	10
			OR	
Tri 2	1704ENG		Electrics and Electronics for Designers	10
Tri 2	1011SCG		Mathematics 1A (not offered from 2017)	10
			OR	
Tri 1,3	1010ENG		Engineering Mathematics 1	10
Tri 2	1006ENG		Design and Professional Skills (see Note 1) (not offered from 2017)	10
			OR	
Tri 1	1022ENG		Engineering Design Practice	10
			OR	
Tri 2	5903LHS		Language and Communication for Sciences	10

Note 1: Students not undertaking 1006ENG (not offered from 2017) or 1022ENG (offered from 2017) in Year 1 must complete this course in Year 2.

Year 2

Students must complete the following courses:

Semester	Course code	Requirement	Course title	CP
Tri 1	1007ENG		Engineering Fundamentals (not offered from 2017)	10
			OR	
Tri 1,3	1701ENG		Creative Engineering (Withdrawn from 2022)	10
			OR	
Tri 1,3	1108ENG		Digital and Data Skills	10
Tri 1	1502ENG		Engineering Materials (not offered from 2017)	10
			OR	
Tri 1,3	1017ENG		Engineering Materials	10
Tri 1	1012SCG		Mathematics 1B (offered for the last time in Tri 1 2017)	10
			OR	
Tri 2	1020ENG		Engineering Mathematics 2	10
Tri 1	1004ENG		Computing and Programming with MATLAB (not offered from Tri 2 2017)	10
			OR	
Tri 2	1105ENG		Numerical and Computing Skills (withdrawn from 2022)	10
			OR	
Tri 2	1108ENG		Digital and Data Skills (for Civil or Environmental Engineering majors)	10
Tri 2			Undergraduate free-choice elective/s (see Note 1)	10
			OR	
Tri 2	1006ENG		Design and Professional Skills (see Note 2) (not offered from 2017)	10
			OR	
Tri 1	1022ENG		Engineering Design Practice	10
Tri 2	3004ENG		Project Management Principles	10
Tri 2	2102ENG		Soil Mechanics	10
Tri 2	2103ENG		Structural Design	10

Note 1: Students may choose **Undergraduate free-choice elective/s** from across the university or choose Engineering electives from the list below.

Note 2: Students not undertaking 1006ENG (not offered from 2017) or 1022ENG (offered from 2017) in Year 1 must undertake this course in Year 2.

Year 3

Students must complete the following courses:

Semester	Type	Course code	Requirement	Course title	CP
Tri 1		2002ENG		Fluid Mechanics and Hydraulics	10
Tri 1		2101ENG		Mechanics of Materials I	10
Tri 1		2104ENG		Construction Methods and Practices	10
Tri 1		2203NSC		Mathematics 2A (not offered from 2018)	10
				OR	
Tri 1		2205NSC		Calculus II	10
Tri 2		2105ENG		Mechanics of Materials 2	10
Tri 2	HCC-A	2106ENG		Design for Civil Engineers (not offered from 2019)	10
				OR	
Tri 2	HCC-A	3113ENG		Civil Engineering Design Project	10
Tri 2	HCC-A	3103ENG		Concrete Structures	10
Tri 2		2004ENG		Hydrology	10

Type:

HCC-A = Honours Calculable Courses with a weighting factor of 1

HCC-B = Honours Calculable Courses with a weighting factor of 2

Exit point: **Bachelor of Engineering Science (1573)**. To exit (after completing the 240 credit point requirements of Years 1, 2 and 3), a student should apply for a program transfer.

Year 4

Students must complete the following courses:

Semester	Type	Course code	Requirement	Course title	CP
Tri 1	HCC-A	4000ENG		Research Methods and Statistics	10
Tri 1		3101ENG		Structural Analysis	10
Tri 1	HCC-A	3102ENG		Geotechnical Engineering	10
Tri 1				Undergraduate free-choice elective/s (see Note 1)	10
Tri 2	HCC-B	6007ENG		IAP - Thesis (capstone course) (not offered from 2021) (see Note 2)	30
				AND	
Tri 2		6008ENG		IAP - Professional Practice (not offered from 2021) (see Note 2)	10
				OR	
Tri 2	HCC-B	6002ENG		IAP (offered from 2020) (see Note 2)	40

Note 1: Students may choose **Undergraduate free-choice elective/s** from across the university or choose Engineering electives from the list below.

Note 2: Students who have completed either 6007ENG or 6008ENG should complete the corresponding course (6007ENG or 6008ENG) before 2021. Students who have not completed either 6007ENG or 6008ENG should enrol in 6002ENG.

Type:

HCC-A = Honours Calculable Courses with a weighting factor of 1

HCC-B = Honours Calculable Courses with a weighting factor of 2

Year 5

Students must complete the following courses:

Semester	Type	Course code	Requirement	Course title	CP
Tri 1	HCC-B	6003ENG		Integrated Design Project	10
Tri 2	HCC-B	6110ENG		Coastal Engineering and Modelling	10
Tri 2	HCC-B	6109ENG		Construction Project Management	10
Tri 2	HCC-B	6106ENG		Transportation Engineering	10

Type:

HCC-A = Honours Calculable Courses with a weighting factor of 1

HCC-B = Honours Calculable Courses with a weighting factor of 2

Civil Engineering electives

The availability of these elective courses may be subject to change and students should consult the course offering details and discipline convenor if necessary prior to enrolling.

Civil Engineering students may choose up to 20 credit points from this list in place of **Undergraduate free-choice elective/s**.

Semester	Course code	Requirement	Course title	CP
Tri 1	3107ENG		Construction Materials	10
Tri 1	3114ENG		Rock Mechanics	10
Tri 2	3105ENG		Water Resources Engineering	10
Tri 2	3111ENG		Coastal Zone Management	10
Tri 2	3115ENG		Geotechnical Engineering Practice	10