UNIVERSITY OF CANBERRA

Bachelor of Civil Engineering Technology (367JA.1)

Please note these are the 2018 details for this course

Domestic students

Selection rank	
English language requirements	An IELTS Academic score of 6.0 overall, with no band score below 6.0 (or equivalent). View IELTS equivalences
Duration	3.0 years
UAC code	
Faculty	Faculty of Arts and Design
Discipline	School of Design and the Built Environment
Location	UC - TAFE Queensland, South Bank

International students

Academic entry requirements	To study at UC, you'll need to meet our academic entry requirements and any admission requirements specific to your course. Please read your course admission requirements below. To find out whether you meet UC's academic entry requirements, visit our academic entry requirements page. View UC's academic entry requirements
English language requirements	An IELTS Academic score of 6.0 overall, with no band score below 6.0 (or equivalent). View IELTS equivalences
CRICOS code	094949B
Faculty	Faculty of Arts and Design
Discipline	School of Design and the Built Environment
Location	UC - TAFE Queensland, South Bank

Duration	3.0 years

About this course

The Bachelor of Civil Engineering Technology, with a strong focus on civil engineering, is a paraprofessional degree. Students completing the degree may enter practice as a qualified member of the civil engineering team. There are two further areas of study in the degree, students will complete the innovative and new Major in Building Information Modelling, which develops students' knowledge and skills to see a construction project through its lifecycle, from concept to construction. Students also complete a minor in engineering and construction project management, giving them scope to work in management areas within engineering companies. Students successfully completing their study may be eligible to apply for Engineering Technologist membership of Engineers Australia. Students completing the three-year degree with a grade point average of 5.0 or better (equivalent to a credit average) may qualify for entry to the Faculty of Arts and Design Honours program.

Professional accreditation

The course will seek professional accreditation from Engineers Australia at the level of Engineering Technologist.

Admission requirements

Normal UC admission requirement to undergraduate courses.

Additional admission requirements

All students are required to complete their White Card training prior to the commencement of their first work placement.

Assumed knowledge

None.

Periods course is open for new admissions

This course is not open for new admissions.

Credit arrangements

There are currently no formal credit transfer arrangements for entry to this course. Any previous study or work experience will only be considered as part of the application process in accordance with current course rules and university policy. Credit is not permitted towards completion of a graduate certificate.

Course requirements

Bachelor of Civil Engineering Technology (367JA) | 72 credit points

Expand All | Collapse All

Required - 63 credit points as follows

Major in Building Information Modelling (MJ0303) | 18 credit points

Required - Must pass 18 credit points as follows

Visual Representation (8322) | 3 credit points — Level 1

Digital Environment (8330) | 3 credit points — Level 1

Building Information Modelling (10144) | 3 credit points — Level 3

Structural Design and Drafting (10245) | 3 credit points — Level 2

Structural Steel Design and Technology (10250) | 3 credit points — Level 2

Concrete Design and Technology (10253) | 3 credit points — Level 3

Major in Civil Engineering (Restricted) (MJ0304) | 24 credit points

Required - Must pass 24 credit points as follows

Engineering Fundamentals (10243) | 3 credit points — Level 1

Engineering Surveying (10244) | 3 credit points — Level 1

Geoscience (10246) | 3 credit points — Level 2

Environmental Engineering (10247) | 3 credit points — Level 2

Civil Design and Drafting (10249) | 3 credit points — Level 2

Municipal Engineering (10251) | 3 credit points — Level 2

Road Design (10252) | 3 credit points — Level 3

Engineering Project (10254) | 3 credit points — Level 3

Minor in Engineering and Construction Management (MN0206) | 12 credit points

Required - Must pass 9 credit points as follows

Construction Project Management (10139) | 3 credit points — Level 3

Introduction to Estimating and Measurement (10140) | 3 credit points — Level 1

Construction Procurement (10141) | 3 credit points — Level 3

Restricted Choice - Must pass 3 credit points from the following

Introduction to Built Environment Management (10148) | 3 credit points — Level 1

Advanced Digital Environment (10356) | 3 credit points — Level 2

Required Units - Must pass 9 credit points as follows

Foundations of Professional Planning (9799) | 3 credit points — Level 1

Industry & Community Engagement (Internships) (10115) | 3 credit points — Level 3

Mathematics for the Built Environment (10242) | 3 credit points — Level 1

Restricted Choice - Must pass 3 credit points from the following

Estimating and Measurement 2 (10138) | 3 credit points — Level 2

Advanced Engineering Mathematics (10248) | 3 credit points — Level 2

Open Electives - 6 credit points as follows

- Unit Levels: In choosing electives students should note that not more than 30 credit points at Level 1 is permitted for the entire course.

Note:

- Must pass 6 credit points from anywhere in the University.

In addition to course requirements, in order to successfully complete your course you may need to meet the inherent requirements. Please refer to the inherent requirements statement applicable to your course

Typical study pattern

Standard Full Time, Semester 1 Commencing

Year 1

Semester 1	Semester 2
Engineering Fundamentals (10243)	Digital Environment (8330)
Foundations of Professional Planning (9799)	Engineering Surveying (10244)
Mathematics for the Built Environment (10242)	Introduction to Estimating and Measurement (10140)
Visual Representation (8322)	Structural Design and Drafting (10245)

Year 2

Semester 1

Open Elective

Advanced Digital Environment (10356)

Environmental Engineering (10247)

Geoscience (10246)

Semester 2

Municipal Engineering (10251)

10248 - Advanced Engineering Mathematics OR 10138 - Estimating and Measurement 2

Civil Design and Drafting (10249)

Structural Steel Design and Technology (10250)

Year 3

Semester 1

Road Design (10252)

Open Elective

Concrete Design and Technology (10253)

Construction Project Management (10139)

Semester 2

Building Information Modelling (10144)

Construction Procurement (10141)

Engineering Project (10254)

Industry & Community Engagement (Internships) (10115)

Course information

Course duration

Standard six semesters full-time or equivalent. Maximum twenty semesters.

Learning outcomes

Learning outcomes	Related graduate attributes
By the end of the degree students will be able to: 1. Possess and apply broad and coherent theoretical knowledge and skills of the fundamentals in the field of Civil Engineering;	UC graduates are professional: Employ up-to-date and relevant knowledge and skills; and Use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems. UC graduates are global citizens: Adopt an informed and balanced approach across professional and international boundaries; and Make creative use of technology in their learning and professional lives. UC graduates are lifelong learners: Reflect on their own practice, updating and

	adapting their knowledge and skills for continual professional and academic development; and Adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas.
2. Demonstrate and apply creative, innovative and critical thinking skills, displaying an in-depth knowledge of technology and its applications, with the ability to fulfil the role of technical expert;	UC graduates are professional: Employ up-to-date and relevant knowledge and skills; Communicate effectively; Use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; Work collaboratively as part of a team, negotiate, and resolve conflict; and Display initiative and drive, and use their organisational skills to plan and manage their workload. UC graduates are global citizens: Make creative use of technology in their learning and professional lives. UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; Be self-aware; Adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas; and Evaluate and adopt new technology.
3 Demonstrate an understanding of the business environment, with the ability to communicate as a professional to all stakeholders in the civil engineering industry, and work independently or as part of a project team, for the successful conclusion of	UC graduates are professional:

engineering projects;	Employ up-to-date and relevant knowledge and skills; Communicate effectively; Use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; Work collaboratively as part of a team, negotiate, and resolve conflict; and Display initiative and drive, and use their organisational skills to plan and manage their workload. UC graduates are global citizens: Think globally about issues in their profession; Understand issues in their profession from the perspective of other cultures; and Communicate effectively in diverse cultural and social settings. UC graduates are lifelong learners: Adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas.
4 Recognise and apply the use of appropriate techniques, tools and resources fitting to civil engineering, to undertake problem solving, engineering design and conduct engineering projects; and	UC graduates are professional: Employ up-to-date and relevant knowledge and skills; Use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; and Work collaboratively as part of a team, negotiate, and resolve conflict. UC graduates are global citizens: Think globally about issues in their profession; and Make creative use of technology in their learning and professional lives.

	UC graduates are lifelong learners: Be self-aware; Adapt to complexity, ambiguity and change by being flexible and keen to engage with new ideas; and Evaluate and adopt new technology.
5 Demonstrate ethical, social and environmental responsibility in addressing real world engineering issues and imperatives, in global and local contexts, with sensitivity to indigenous rights in the civil engineering industry.	UC graduates are professional: Communicate effectively; Use creativity, critical thinking, analysis and research skills to solve theoretical and real-world problems; Display initiative and drive, and use their organisational skills to plan and manage their workload; and Take pride in their professional and personal integrity. UC graduates are global citizens: Think globally about issues in their profession; Adopt an informed and balanced approach across professional and international boundaries; Understand issues in their profession from the perspective of other cultures; Communicate effectively in diverse cultural and social settings; and Behave ethically and sustainably in their professional and personal lives. UC graduates are lifelong learners: Reflect on their own practice, updating and adapting their knowledge and skills for continual professional and academic development; Be self-aware; and Adapt to complexity, ambiguity and change by

	being flexible and keen to engage with new ideas.

Majors

- Major in Building Information Modelling (MJ0303)
- Minor in Engineering and Construction Management (MN0206)
- Major in Civil Engineering (Restricted) (MJ0304)

Awards

Award	Official abbreviation
Bachelor of Civil Engineering Technology	B CivETech

Honours

Students completing the three-year degree with a grade point average of 5.0 or better (equivalent to a credit average) may qualify for entry to the Faculty of Arts and Design Honours program.

Enquiries

Student category	Contact details
Prospective Domestic Students:	Email study@canberra.edu.au or Phone 1800 UNI CAN (1800 864 226)
Current and Commencing Students:	TAFE Queensland Brisbane Email UCQueensland@canberra.edu.au Phone 13 72 48

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