

# Bachelor of Engineering (Civil) (Honours)



LOCATION	ENTRY THRESHOLD	QTAC CODE	START
Sunshine Coast	60.00	013731	Semester 1, Semester 2
Moreton Bay	60.00	014731	Semester 1, Semester 2

Design and build the future. Civil engineers plan, design, build and maintain the infrastructure we rely on as a civilisation – including buildings, roads, and water systems. This program develops practical skills in engineering design, project management and sustainability, qualifying you to work as a civil engineer in Australia and overseas.

In this program you will:

- Learn to use mathematical and scientific principles to solve a range of technical problems
- Get hands-on experience through 12 weeks of work experience
- A wide range of minors including climate change and coastal zone studies, management for engineers, mechatronic engineering and electrical and electronic engineering
- A major final-year research project on a topic of your choice
- Learn from industry professionals through guest lectures that expose you to current engineering professional practice
- Recreate interactive real-life scenarios in USC's state-of-the-art visualisation studio and dedicated engineering laboratories

Career opportunities

- Government agencies
- Construction companies
- Engineering consultancies
- Building industry
- Mining industry
- Research organisations

Accreditation

This program is internationally recognised to allow you to work in Australia and overseas.

Post admission requirements

Students must complete 60 days of suitable field experience.

## Program structure

Introductory courses (8) 96 units

ENG101 Foundations of Engineering  
ENG102 Engineering Statics  
ENG103 Introduction to the Internet of Things  
ENG104 Introduction to Engineering Design  
MTH103 Introduction to Applied Mathematics  
MTH104 Introductory Calculus

[usc.edu.au/sc410](http://usc.edu.au/sc410)

University of the Sunshine Coast | CRICOS Provider Number: 01595D | Correct as at 1 April 2023  
Study options and teaching period of offer can vary depending on the study location. For full details, visit [usc.edu.au](http://usc.edu.au).

Duration

4 years

Full-time or equivalent part-time

Indicative 2023 fees

A\$7,252 - 2023 Fees (CSP)

Fees are indicative only and will change based on courses selected and are subject to yearly increases

Prerequisites

English (Units 3 and 4, C)

Recommended prior study

Maths Methods and/or  
Specialist Maths; and Physics  
or Chemistry

Delivery mode

Blended Learning

Total courses

32

Total units

384

UniSC program code

SC410

SCI107 Physics  
SCI110 Science Research Methods

Developing courses (8) 96 units

CIV200 Structural Analysis and Computer Modelling  
CIV201 Soil Mechanics  
ENS253 Geographic Information Science and Technology  
MEC200 Thermofluids 1  
MEC221 Mechanics of Materials  
MEC225 Engineering Materials  
MTH201 Calculus II and Linear Algebra  
MTH203 Numerical Analysis

Graduate courses (12) 144 units

CIV300 Structural Engineering  
CIV301 Design of Roads and Drainage  
CIV330 Engineering Hydrology  
CIV340 Construction Technology  
CIV400 Water Supply and Wastewater Treatment systems  
CIV401 Sustainable Transport Systems  
CIV451 Concrete Structures and Technology  
ENG302 Engineering Project Management  
ENG304 Engineering Research Methodology  
ENG401 Engineering Project 1  
ENG402 Engineering Project 2  
CIV404 Engineering Sustainable Design

Minor courses (4) 48 units

Students must select one of the following minor study areas:

- Climate Change and Coastal Zone Studies
- Electrical and Electronic Engineering (for Civil Engineers)\*\*
- Environmental Studies for Engineers^
- Management for Engineers^
- Mechatronic Engineering (for Civil Engineers)\*\*
- Mechanical Engineering (for Civil Engineers)
- Public Health for Engineers^
- Town Planning Studies^
- Visualisation and Animation
- Wider Engineering Studies

^Not available at Moreton Bay campus

\*\*Not available at Sunshine Coast campus

Honours

The Bachelor of Engineering (Civil) (Honours) may be awarded with Honours. The class of Honours to be awarded to a student is dependent upon:

- the percentage results achieved by study or transfer in twelve courses (144 units) as specified in the table below; and
- the student achieving at least 65% in ENG402 Engineering Project 2.

## COURSES

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CIV201 Soil Mechanics

CIV300 Structural Engineering

ENG302 Engineering Project Management

CIV301 Design of Roads and Drainage

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ENG304 Engineering Research Methodology  
ENG401 Engineering Project 1  
ENG402 Engineering Project 2  
CIV404 Engineering Sustainable Design  
CIV400 Water Supply and Wastewater Treatment systems  
CIV451 Concrete Structures and Technology  
CIV401 Sustainable Transport Systems  
MTH203 Numerical Analysis

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A student must complete a minimum of 8 courses (96 units) in the table and the research project for an honours grade to be awarded.

The minimum levels of achievement normally required for each class of honours are shown in the following table:

HONOURS RESULTS CLASSIFICATION	OVERALL PERCENTAGE ATTAINED IN SPECIFIED COURSES*
Honours Class I	80% - 100%
Honours Class IIA	70% - 79%
Honours Class IIB	60% - 69%

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\*The percentage result shall be rounded up if  $\geq 0.5$  or rounded down if  $< 0.5$ .

Note: Program structures are subject to change. Not all UniSC courses are available on every UniSC campus.