

Bachelor of / Bachelor of Engineering (Civil) (Honours) / Environmental Science



LOCATION

Sunshine Coast

Moreton Bay

START

Semester 1, Semester 2

Semester 1, Semester 2

Manage human interaction with the environment. Gain a broad foundation in civil engineering and environmental sciences, and learn how to design systems that anticipate and manage the way humans interact with the environment. During the program, you'll build expertise in areas including environmental management, planning and restoration, managed ecosystems and marine science.

In this program you will:

- Learn about the creative nature of engineering
- Develop skills in problem-solving, teamwork and communication
- Gain technical, business management and scientific environmental knowledge
- Graduate with the scientific skills needed to make judgements on the conservation and use of Australia's natural ecosystems and resources
- Complete more than 60 days of work experience

Career opportunities

- Government agencies
- Construction companies
- Engineering consultancies
- Building industry
- Water supply authorities
- Mining industry
- Research organisations
- Parks and wildlife
- Resource management
- Environmental consultancies

Post admission requirements

Students must complete 60 days of suitable field experience.

Program structure

Introductory courses (11) 132 units

ENG101 Professional Engineering

ENG102 Engineering Statics

ENG103 Introduction to the Internet of Things

ENG104 Engineering Design

ENS103 Earth's Surface Processes

CRICOS Code
085715F

Duration

5 years

Only a full-time option is available to international students on a Student visa. Online programs are not available to Student visa holders.

Indicative 2024 fees

A\$30,300

Annual fee

Tuition fees are reviewed each calendar year. The fee you must pay for a given teaching period is that which has been approved by UniSC for the calendar year in which the teaching period commences

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

40

Total units

480

UniSC program code
SC425

usc.edu.au/sc425

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MTH103 Introduction to Applied Mathematics
MTH104 Introductory Calculus
SCI102 Biodiversity and Ecology
SCI105 Introductory Chemistry
SCI107 Physics
SCI110 Science Research Methods

Developing courses (13) 156 units

CIV200 Structural Analysis
CIV201 Geotechnical Engineering
ENS221 Plant Diversity and Ecology
ENS222 Terrestrial Vertebrate Diversity and Ecology
ENS224 Soil Properties, Processes and Rehabilitation
ENS242 Weather and Climate
ENS253 Geographic Information Science and Technology
MEC200 Thermodynamics
MEC221 Mechanics of Materials
MEC225 Engineering Materials
MTH201 Calculus II and Linear Algebra
MTH203 Numerical Analysis

PLUS 1 course from the following:

ANM203 Statistics with Teeth: Understanding Ecological Data
SCI202 Advanced Research Methods and Statistics

Graduate courses (15) 180 units

CIV300 Structural Design
CIV301 Road and Traffic Engineering
CIV330 Engineering Hydrology
CIV340 Construction Technology
CIV400 Water Supply and Wastewater Treatment systems
CIV401 Sustainable Transport Systems
CIV404 Engineering Sustainable Design
CIV451 Concrete Structures and Technology
ENG302 Engineering Project Management
ENG304 Engineering Research Methodology
ENG401 Engineering Project 1
ENG402 Engineering Project 2
ENS321 Restoration Ecology
ENS325 Population Ecology and Genetics
GEO302 Coastal Geomorphology

Elective course (1) 12 units

Select 1 elective course (12 units) from the undergraduate elective course options.

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 eleven courses (132 units) as specified in the table below;

and

- the student achieving at least 65% in ENG402 Engineering Research Project 2.

COURSES

CIV201 Geotechnical Engineering

CIV300 Structural Design

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ENG302 Engineering Project Management
CIV301 Road and Traffic Engineering
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

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% |

*The percentage result shall be rounded up if ≥ 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.