Bachelor of Engineering (Mechanical) (Honours)



LOCATION	START
Sunshine Coast	Semester 1, Semester 2
Moreton Bay	Semester 1, Semester 2

Make things happen. Mechanical engineers design, build and maintain complex machines and mechanical systems from the very small to the very large scale. Learn the finer points of engineering and machine design, fluid mechanics, and production engineering which will enable you to make systems and machinery for diverse industries from transport to medical devices.

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
- Experience a broad array of courses covering areas like design, sustainability, modelling and management and leadership
- Manage 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 UniSC's state-of-the-art visualisation studio and dedicated engineering laboratories

Career opportunities

- Government agencies
- Pharmaceutical companies
- Engineering consultancies
- Research organisations
- Mining industry
- Chemical processing
- Construction
- Manufacturing
- Oil and gas
- Automotive
- Aviation
- Transport
- Defence
- Agriculture

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.

usc.edu.au/sc411

University of the Sunshine Coast | CRICOS Provider Number: 01595D | Correct as at 19 May 2024

If you were issued a UniSC Letter of Offer, it will specify your study location and teaching period of offer. Study options and teaching period of offer can vary depending on the study location. For full details, visit usc.edu.au.

CRICOS Code 090700D

Duration

4 vears

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 31

Total units 384

UniSC program code SC411

Program structure

Introductory courses (8) 96 units

ENG100 Materials in Engineering ENG101 Professional Engineering ENG104 Engineering Design ENG105 Engineering Statics ENG106 Engineering Computing MTH103 Introduction to Applied Mathematics MTH104 Introductory Calculus SCI107 Physics

Developing courses (9) 96 units

ENG200 Professional Practice(0 units) ENG206 Sustainable Engineering (Design) MEC200 Thermodynamics MEC202 Mechanical Design MEC221 Mechanics of Materials MEC226 Manufacturing Technology MCH201 Systems and Signals MTH201 Calculus II and Linear Algebra MTH203 Numerical Analysis

Graduate courses (14) 192 units

ENG305 Engineering Management ENG306 Engineering System Design MCH300 Machine Component Design MCH302 Robotics and Autonomous Systems MEC304 Engineering Dynamics MEC305 Fluid Mechanics MEC308 System Dynamics and Control MEC335 Production Engineering ENG406 Engineering Project 1(24units) ENG407 Engineering Project 2(24 units) MCH402 Advanced Control Systems Engineering MEC401 Advanced Engineering Materials MEC402 Heat Transfer MEC403 Computational Analysis

Honours

The Bachelor of Engineering (Mechanical) (Honours) may be awarded with Honours. The class of Honours awarded to a student is calculated using the mean mark achieved when completing the 96 units of AQF8 level courses (400 coded).

HONOURS RESULTS CLASSIFICATION	MEAN MARK ACHIEVED IN AQF8 COURSES (400 CODED)
Honours Class I	80% - 100%
Honours Class IIA	70% - 79.5%
Honours Class IIB	60% - 69.5%
Honours Class III	50% - 59.5%
Marginal Fail	47% - 49.5%
Fail	0% - 46.5%

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

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