Bachelor of Engineering (Electrical and Me UniSC Electronic) (Honours)

LOCATION	START
Moreton Bay	Semester 1. Semester 2

Harness the power of a changing world. Electrical and electronic engineers play a role in almost every aspect of modern life, from smartphones to energy systems powering cities. Learn to design, develop and maintain systems of all shapes and sizes.

In this program you will:

- Study fundamentals of engineering, including applied maths, physics, statics and systems design
- Develop in-depth skills in electrical and electronic engineering theory, standards and practice
- Complete specialist courses in circuit design and analysis, electrical power systems (including renewable energy), robotics and automation, computer programming and more
- Understand social, economic and environmental dimensions of engineering, and the importance of sustainable development
- · Develop advanced problem solving, communication and project management skills

Career opportunities

- Design, manufacture, testing and maintenance of electrical and electrical systems
- Infrastructure construction
- Data communications
- Aviation
- Mining
- Power generation and transmission
- Renewable energy
- Automotive
- Automation
- Robotics
- Domestic appliances

Accreditation

This program is currently undergoing provisional accreditation by Engineers Australia.

Post admission requirements

Students must complete 60 days of suitable engineering work experience.

Program structure

Introductory courses (8) 96 units

ENG100 Materials in Engineering ENG101 Professional Engineering ENG104 Engineering Design

usc.edu.au/sc404

University of the Sunshine Coast | CRICOS Provider Number: 01595D | Correct as at 20 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 0100794

Duration

4 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 31

Total units 384

UniSC program code SC404 ENG105 Engineering Statics ENG106 Engineering Computing MTH103 Introduction to Applied Mathematics MTH104 Introductory Calculus SCI107 Physics

Developing courses (9) 96 units

ELC200 Digital Logic and Computer Programming ELC206 Analog and Digital Electronics ELC207 Communications Engineering ENG200 Professional Practice(0 units) ENG206 Sustainable Engineering (Design) MCH201 Systems and Signals MCH202 Electrical Machines and Drives MTH201 Calculus II and Linear Algebra MTH203 Numerical Analysis

Graduate courses (14) 192 units

ELC300 Electronic Design ELC302 Digital Signal Processing ELC305 Power Electronics and System Analysis ENG305 Engineering Management ENG306 Engineering System Design MCH302 Robotics and Autonomous Systems MCH303 Engineering Computer Applications and Interactive Modelling MEC308 System Dynamics and Control ELC401 Advanced Digital Communications ELC403 Electrical Power Distribution Engineering ELC404 Advanced Digital and Embedded Systems ENG406 Engineering Project 1(24 units) ENG407 Engineering Project 2(24 units) MCH402 Advanced Control Systems Engineering

Honours

The Bachelor of Engineering (Electrical and Electronic) (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%

Fail	0% - 46.5%
Marginal Fail	47% - 49.5%
Honours Class III	50% - 59.5%
Honours Class IIB	60% - 69.5%

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

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