

Bachelor of Engineering (Electrical and Electronic Engineering) (Honours)/ Bachelor of Business (Management)

2019

Undergraduate

Combine fundamental knowledge and principles in electrical and electronic engineering with the ability to manage modern organisations.

You'll study fundamental knowledge and principles in the general field of electrical and electronic engineering, which underpin the modern devices and systems that facilitate our information rich lifestyles and public services. You'll learn about design and control of devices and systems to power and automate modern living, and to improve quality of life for individuals and communities.

You will have a wide range of options to specialise in various sub-areas of electrical and electronic engineering.

Contemporary managers are increasingly expected to exercise strong ethical judgement and to be dedicated to a process of continuous learning about their practice. They are also expected to work flexibly and effectively with those around them in a variety of organisational structures.

You'll graduate ready to move into an engineering management role either relatively early in your career or after a period of experience as a professional engineer, rather than having to undertake further study to prepare for a management role.

Industry connections

In the final year of your studies you'll undertake a major project that is either industry-based or simulates an industrial situation. Combining and further developing the key theoretical and practical knowledge necessary for your field - as defined by Engineers Australia - you'll work with industry leaders to solve a project challenge.

Before graduating from this program, you are strongly encouraged to complete a minimum 12 weeks of engineering industry experience. This allows you to gain first-hand experience in an engineering practice environment under the supervision of a practising professional engineer. The nature and timing of this engineering experience can take a range of forms.

Opportunities exist for an overseas work placement of between six and 12 months (this satisfies the work experience requirement). These placements are normally taken during a one-year break in the middle or at the end of the third year of the degree.

Career outlook

Electrical and electronic engineering graduates design and make electrical and electronic products, or install and maintain systems for businesses.

Universities and governments also require engineers to maintain and improve their electrical and electronic technologies.

Other roles exist in power plants, auto-electronics for the car industry, defence and research.

You could also choose to run your own business, delivering services in your chosen specialisation.

Professional recognition

This program is fully accredited by Engineers Australia. Graduates of the program are eligible for graduate membership of Engineers Australia. Full membership as a professional engineer may be obtained after an appropriate period of professional practice.

Australia is one of 15 countries that are signatories to the International Engineering Alliance, also known as the Washington Accord, for professional engineers. The qualification of graduates from this degree is recognised in all countries that are signatories to the Accord.

International opportunities

RMIT encourages you to aspire to a global career, not just a local one.

Through partner organisations in Europe, Asia and the United States, the RMIT International Experience and Research Program (RIIERP) offers workplace training and academic research placements for between six and 12 months.

Program snapshot

Program code: BH111

Duration

Full-time: 5 years
Part-time may be available

Location

City and Bundoora campuses

Years 1 and 2 are conducted on the City campus, year 3 is primarily at the City campus with some Bundoora attendance and years 4 and 5 are conducted at the Bundoora campus with year 5 having some City attendance.

Selection mode

ATAR (2018: Not published)

How to apply

Semester 1: VTAC
vtac.edu.au

Semester 2: Direct to RMIT
rmit.edu.au/programs/apply/direct

Fees

For local fee information:
rmit.edu.au/programs/fees

Contact

Info Corner
330 Swanston Street
(cnr La Trobe Street)
Melbourne VIC 3000
Tel. +61 3 9925 2260

rmit.edu.au/programs/bh111

Program structure

Year 1 to 3

You'll learn the fundamentals of electrical and electronic engineering, mathematics, physics, and business entrepreneurship tailored for electrical and electronic engineers.

Project work will put your knowledge of engineering methods into practice. You will gain communication, teamwork and leadership skills, and learn how to transmit knowledge, skills and ideas to others.

Years 4 and 5

You'll specialise in electrical and electronic engineering and management. Compulsory courses will start with a group design project and research methods for engineers, leading to a major individual design project in the final year related closely to industry.

A wide range of technical electives will be available in electrical and electronic engineering to enrich your engineering and professional capabilities. You have the option of specialising in one area or picking electives from several areas for a more generalist program.

Your final year (capstone) project will develop and reinforce the skills and knowledge you need - as defined by Engineers Australia - to commence your professional engineering career. You may also complete a work-integrated learning (industry experience) elective in Years 3 or 5.

In business management, you will complete six courses with an elective that cover a wide range of contemporary business management topics addressing challenges in a global, dynamic and changing organisational environment.

Year 1	Engineering Computing 1	Engineering Mathematics A	Electrical Engineering Analysis	Accounting in Organisations and Society	
	Circuit Theory	Physics 1	Introduction to Management	University elective	
Year 2	Mathematics for ECE	Signals and Systems 1	Electrical Engineering 1	Macroeconomics 1	
	Digital Systems Design 1	Electronics	Introduction to Professional Engineering Practice	Prices and Markets	Marketing Principles
Year 3	Commercial Law	Ethics and Governance	Engineering elective	Engineering elective	
	Communication Engineering 1	Introduction to Embedded Systems	Engineering Design 2	Organisational Behaviour	Business elective
Year 4	Engineering Design 3A	Contemporary Management: Issues and Challenges	Creativity, Innovation and Design	Management in Practice	Engineering elective
	Engineering Design 3B	Research Methods for Engineers	Leading for Change	Engineering elective	
Year 5	Engineering Capstone Project Part A	Work in Global Society	Engineering elective	Engineering elective	Business elective
	Engineering Capstone Project Part B	Strategic Management	Engineering elective	Engineering elective	

Compulsory courses
 Program electives
 University electives

Please note: This is an example of the program structure. Courses may change and may not be available each semester.