

Your career

After graduation you can work as an accredited engineer. Careers in engineering are diverse, with high demand in Australia and overseas.

At ANU you will be provided with a set of skills and abilities that are highly sought after in engineering companies and across many other professions and organisations.

Because of our unique systems approach many of our graduates quickly progress to senior management roles. For this reason, engineering at ANU is often considered a springboard into the corporate world.

Our graduates work in many organisations including:

- > Department of Defence

> Bassett Consulting Engineers

> Qantas

> Energy Australia

> Accenture
- > IBM

> CEA Technologies

> ABB (Switzerland)

> Thales (France)

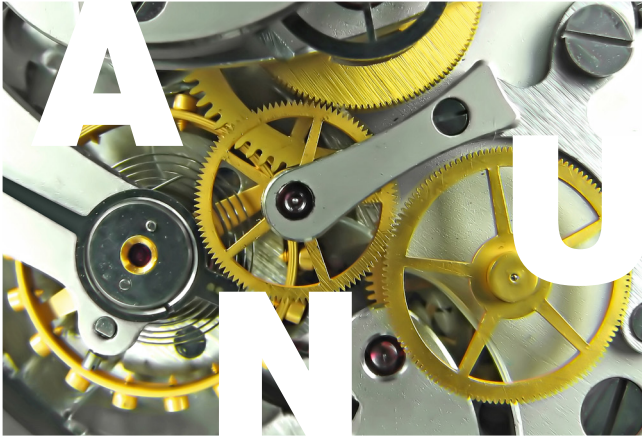
“The world is moving so quickly now, and systems engineering gives you that grounding so that you can go easily into any different engineering field.”

Thomas Manley
Chief Architect, Optus
Graduate, Bachelor of Engineering

| Year | Semester 1 | Semester 2 |
|------|--|--|
| 1 | Discovering Engineering Engineering Sciences Physics 1 Mathematics & Applications 1 | Introduction to Mechanics Introduction to Electronics Programming for Scientists Mathematics & Applications 2 |
| 2 | Systems Engineering Design Mechanical Systems & Design Electronic Systems & Design Computing for Engineering Simulation | Systems Engineering Analysis Engineering Major Elective Course Elective Course |
| 3 | Engineering Management Engineering Major Engineering Major Elective Course | Engineering Innovation Engineering Major Engineering Elective Elective Course |
| 4 | Systems Engineering Project Individual Project Engineering Major Elective Course | Individual Project Engineering Major Engineering Elective Elective Course |

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BACHELOR OF ENGINEERING
(HONOURS)

ANU College of
Engineering &
Computer Science

Bachelor of Engineering (Honours)

ATAR 90
Years 4
UAC Code 135004
CRICOS Code 001691D

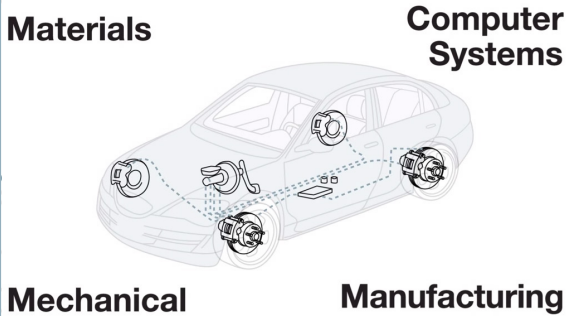
Prerequisites
Mathematical Methods (Major) ACT/Mathematics NSW
Specialist Mathematics or higher is preferred
Physics (recommended)

Are you looking to make a difference to society or solve some of the world’s largest problems? Would you like to make solar energy more efficient or invent the next generation of smartphones?

Do you want to develop new technology in robotics or materials to support the growth of human cells? Perhaps you’re creative, enjoy teamwork, maths or science?

If you have answered yes, then a degree in engineering is for you!

Our ‘systems engineering’ approach means that you will study more than just one engineering discipline. Modern organisations need engineers who can understand the design and performance of the whole engineering system and not just one individual component – this is what makes a Bachelor of Engineering (Honours) at ANU so different!



Systems Engineering

ANU is leading the way in undergraduate engineering education. The systems engineering framework of our degree prepares students to design, analyse, and manage complex interdisciplinary systems or projects, for example, a car or mobile phone.

The ANU degree has been designed with industry to meet the demands of our rapidly advancing world.

This degree recognises that organisations need modern engineers who can adapt to new technologies, lead engineering teams and have skills across multiple fields of engineering.

At ANU you’ll study core foundation and engineering courses for the first year and a half and after this you’ll choose an area to specialise in by selecting your engineering major.

This systems approach is used at other world-class universities, including university of Cambridge and Massachusetts Institute of Technology (MIT).

Our graduates are highly sought after as organisations need engineers who can understand the design and performance of the whole engineering system, and not just an individual component.

Majors

Along with studying the core courses of this degree, you will also take a major in an area of interest.

What is a major?

A major consists of eight courses. Some students can also take up a minor (four courses). Take a look at our majors below, and some of the courses you can study in each.

Biomedical Systems

- > Molecular and Cell Biology
- > Biomechanics and Biomaterials
- > Nanotechnology and Applications

Electronic & Communication Systems

- > Signal Processing
- > Digital and Wireless Communication
- > Power Electronics

Mechanical & Material Systems

- > Thermal Energy Systems
- > Composite Materials
- > Manufacturing Technologies

Mechatronic Systems

- > Robotics
- > Control Systems
- > Computer Vision

Photonic Systems

- > Optical Physics
- > Fibre Optic Communication Systems and Microphotonics
- > Biophotonics and Nanophotonics

Renewable Energy Systems

- > Photovoltaic Technologies
- > Solar Thermal Technologies
- > Energy Resources and Renewable Technologies

Sustainable Systems

- > Human Ecology
- > Climate Change Science and Policy
- > Solving Complex Environmental Problems



“The systems engineering approach to problem solving taught at ANU is applicable to all fields of engineering and all types of businesses.”

Molly Thomas
Bachelor of Engineering (Honours) /
Bachelor of Science