Civil engineers manage the design and construction of crucial modern infrastructure such as buildings, roads, railways, bridges, tunnels, dams and ports as well as systems for managing water, irrigation, sewage and floodwaters. They take a lead role in sustainable development.

Your studies
This degree will teach you about planning, designing and testing structures within the built environment.

Core units of study will enable you to master the foundations of civil engineering before specialising in your chosen major.

You will develop professional technical, managerial, organisational, financial, environmental and problem-solving skills in the discipline.

As a graduate of this degree you’ll be a highly skilled professional with sound technical, managerial, organisational, financial, environmental and problem-solving skills.

Your career
You might choose to work in an office environment, investigating, planning, designing and managing projects, or you might prefer to supervise projects on site. As a civil engineer you could work in:
- construction
- resources
- manufacturing
- project management and planning
- professional engineering practices
- contracting and consulting firms.

Majors
There are over 15 engineering majors to choose from. Majors that best align with this stream are:
- Construction Management
- Environmental Engineering
- Geotechnical Engineering
- Structures
- Transport Engineering.
Engineering at Sydney

As one of the top 30 engineering and technology universities in the world*, we will provide you with the leadership skills to develop innovative, creative and sustainable solutions that promote positive change.

Clear pathways, widest choice

Our engineering degree options cover aeronautical, mechanical, mechatronic, biomedical, chemical and biomolecular, civil, electrical, and software engineering.

With more than 15 majors, you have the option to personalise your degree:
- Chemical Engineering
- Computer Engineering
- Construction Management
- Electrical Engineering
- Environmental Engineering
- Geotechnical Engineering
- Information Technology (Engineering)
- Materials
- Mechanical Engineering
- Mechatronic Engineering
- Power Engineering
- Space Engineering
- Structures
- Telecommunications Engineering
- Transport Engineering

You can broaden your career options even further by combining your degree with studies in arts, law, architecture, science, commerce, music or medical science. Combined degrees are mostly five years in length and very popular, as they allow you to combine a range of interests.

Flexible First Year Program

If you’re not sure in which area of engineering you’d like to specialise, our Flexible First Year program (UAC code 511756) gives you the time and freedom to discover where your strengths and interests lie before deciding.

Advanced Engineering program

Our Advanced Engineering program is open to students demonstrating outstanding academic ability (indicative ATAR of 97.5 or above). You will take advanced units covering topics such as sustainability and humanitarian issues, business planning and strategy, technology and education. You will also participate in small groups working on problems relevant to the community. You may take any engineering stream within this program. Apply directly through UAC (UAC code 511700).

Assumed knowledge

These HSC subjects are assumed knowledge for our engineering degrees:
- Mathematics Extension 1
- Physics and/or Chemistry (depending on stream)

The whole you, not just your ATAR

If you would like to study engineering subjects at university but are worried about making the ATAR cut-off, don’t worry. Our Flexible Entry scheme considers your ATAR as well as your performance in maths and science subjects, and your leadership capability. Apply at:
- sydney.edu.au/engineering/flexibleentry

Globally recognised qualifications

Our engineering degrees are accredited by Engineers Australia, so you will graduate with a prestigious qualification that is recognised worldwide.

Scholarships

We offer more than 500 University-wide scholarships to undergraduates every year. The Faculty of Engineering and Information Technologies also offers a variety of entry, merit and industry scholarships. For more information about scholarships visit:
- sydney.edu.au/engineering/scholarships
- sydney.edu.au/scholarships