



# Engineering

Undergraduate Courses 2024



No. **1**  
UTS ranked  
Australia's  
#1 young\* uni







# Welcome to UTS Engineering

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## Faculty snapshot

11,439	Total number of enrolments
8029	Undergraduate enrolments
2373	Postgraduate coursework enrolments
1037	Higher Degree Research enrolments

## UTS at a glance

2289	Higher degree research
10,223	Postgraduate coursework
33,806	Undergraduate, enabling and non-award

## UTS student diversity

29%	are 25 or older
49%	are female
48%	were born outside of Australia

Please note the above numbers are approximate as of January 2023.

## Connect with us



UTSFEIT



utsengineeringandit



UTSFEIT

## Acknowledgement of Country

UTS acknowledges the Gadigal People of the Eora Nation and the Boorooberongal People of the Dharug Nation upon whose ancestral lands our campuses stand. We would also like to pay respect to the Elders both past and present, acknowledging them as the traditional custodians of knowledge for these Lands.

# Why engineering at UTS?

Experience the UTS difference.

## INDUSTRY-FOCUSED LEARNING

Nothing prepares you better than real industry experience. That's why we offer hands-on, practice-based learning that cultivates exceptional engineers. And you couldn't study in a better location with 40% of Australia's tech start-up head offices calling our neighbourhood home.

## FUTURE READY

Theory is great, but hands-on experience will make sure you're future ready. Our industry partnerships enable us to offer you working knowledge throughout your degree. And you'll study in world-class, purpose-built teaching spaces and laboratories.

## CONNECTIONS THAT COUNT

Would access to more than 1000 companies give your career a guaranteed advantage? Of course it would. UTS' dedicated Internships team is available to provide personalised assistance and support to ensure you gain the best work experience, giving you a distinct advantage over your peers when you graduate.

## THE WORLD IS WATCHING

Put yourself in the right place from day one. We might be young, but we're making our mark quickly. Among universities under the age of 50, UTS is already the No. 1 ranked university in Australia and No. 10 in the world.

## EXPAND YOUR HORIZONS

Every door in the world is open to you right now, and we want you to keep it that way. Use our Global Exchange, International Studies course or Beyond UTS International Leadership Development (BUILD) program, with its overseas volunteering placements, to lay down the foundations for a global career.

## DO IT YOUR WAY

We get it, you can't hit 'pause' on life when you start university. Find the timetable that suits you with our day/evening classes, summer school and part-time study options.

## ENGINEER FROM DAY ONE

Step one: listen. Step two: do. Engineering subjects are delivered by industry professionals who understand the importance of practice. Be an engineer from the start, applying your skills to real industry challenges, studios and hackathons.



**256**

exchange  
agreements in  
**43** countries

**NO. 1**

in Australia for  
Computer Science  
and Engineering

Academic Ranking of World Universities  
(ARWU) 2022

**5 star  
rated**

for excellence



UTS was awarded 5 stars in all 7 categories  
(QS Stars Rating 2018–2021)

**NO. 1**

UTS ranked  
Australia's  
#1 young uni

THE Young University Rankings 2023

**UTS  
Engineering  
Research**

Rated world  
standard or above

Excellence in Research Australia  
by the Australian Research  
Council in the 2015

**Top 100**

universities globally  
for Engineering/  
Technology and  
Computer Science

Academic Ranking of World  
Universities (ARWU) 2021

**4<sup>th</sup>**

in Australia for  
contributions to  
the Sustainable  
Development Goals

Times Higher Education Impact  
Ranking 2023

**62<sup>nd</sup>**

Globally for graduate  
employability and  
**5<sup>th</sup>** in Australia

(QS Graduate employability Rankings 2023)

# World-class facilities

## ENGINEERING AND IT BUILDING

Every space in the building is designed to turn traditional learning on its head to embed technology and enhance creativity, entrepreneurship and collaboration. Digitally equipped classrooms, collaborative theatres and study spaces adapt to support group work, technology-enabled activities and practice-based learning.

## UTS DATA ARENA

Data comes to life in the building's interactive 3D UTS Data Arena. It is a 3D data visualisation arena showcasing the latest in immersive technology. It enables a unique method for the exploration and visualisation of data. The facility allows researchers to observe interrelationships, patterns and anomalies not normally seen in 2D format.

## PROTOSPACE

A 900m<sup>2</sup> additive and advanced manufacturing facility that supports education, exploration and innovation. This unique lab is unlocking the next generation of manufacturing opportunities and giving UTS students access to cutting-edge 3D-printing technologies, software and technical expertise.

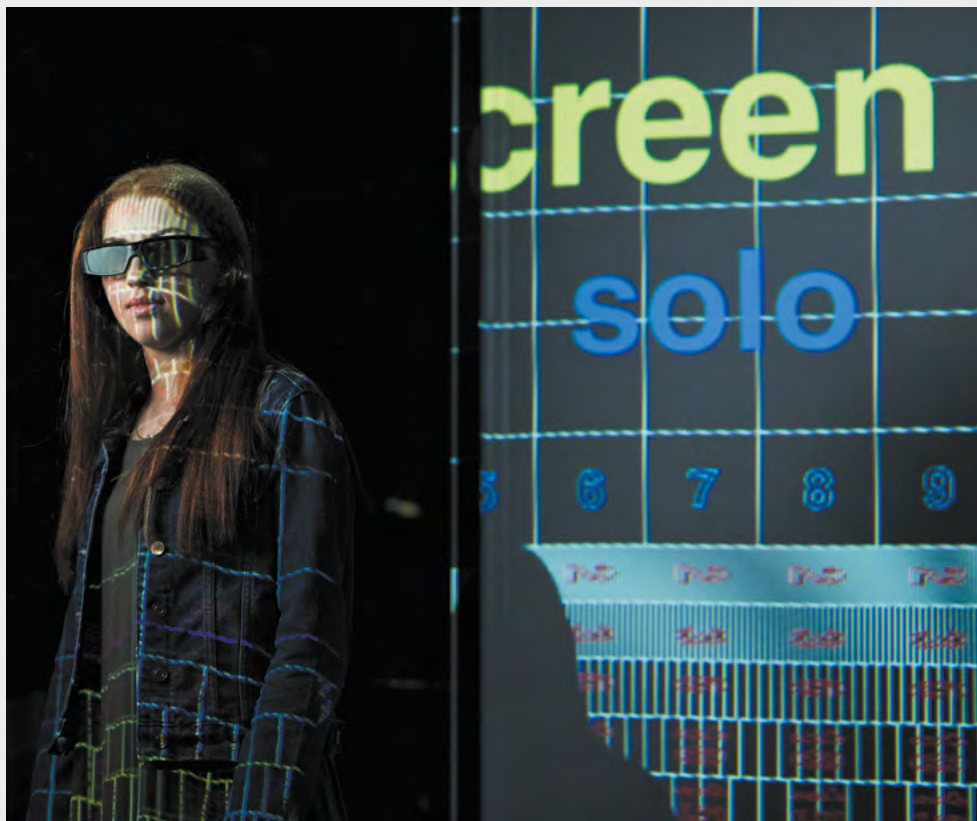
## LABORATORIES

Whatever engineering field you've got your eye on, we've got fully specced-up lab spaces to hone your skills. The building contains civil, electrical, information and communication technology, and mechanical laboratories, where you can gain hands-on, practical experience.

## TECH LAB

A brand new facility that brings together transdisciplinary research on a large scale, with a focus on developing and applying new techniques around digital transformation and Internet of Things (IoT).

The building is a living, breathing laboratory, embedded with revolutionary technology and purpose-built to spark creativity and collaboration. Everything you need to take on tomorrow is right here, all under one roof.



## LEARNING PRECINCT

In between classes, you can study or conduct group work in the FEIT Learning Precinct, where you can ask teachers for support, get your hands on reference materials and access other resources.





**SOFTWARE DEVELOPMENT STUDIO**

A rich environment to become professionally competent via a collaborative industry software development experience.

**UTS LIBRARY**

The library has expanded to include an underground storage system that uses robots to retrieve books, freeing library space for student collaboration and quiet study. This upgrade is part of the UTS City Campus Master Plan, a \$1 billion investment to re-develop UTS.

**UTS STARTUPS**

UTS Startups includes an entrepreneurship program designed to give you start-up skills and provide you with access to resources that help launch the entrepreneurs of the future. Learn more at [startups.uts.edu.au](http://startups.uts.edu.au)



# Internships

Let a degree at UTS Faculty of Engineering and IT give you the edge.

When you choose to study at the UTS Faculty of Engineering and IT, you get to experience the best of both worlds – a great degree and the chance to complete internships alongside your course.

The **Diploma in Professional Engineering Practice** is a 48-week structured Practice Program, consisting of two six-month internships alongside your engineering course. You graduate with practical, hands-on experience to give you a competitive edge when you finish uni.

## Build the foundations for a successful career

Our 1000+ industry partners will drive employment in the technology industry for years to come. Their feedback reveals that they are looking for students with relevant skills and work experience who show they can adapt to a workplace and deliver on projects.

### **GAIN REAL-WORLD EXPERIENCE**

Internships are structured programs that give you valuable hands-on work experience. You get to see how the technical knowledge you learn at uni is applied in practice. It's the perfect way to explore the world of work to learn more about the type of job options and career paths available to you.

### **DEVELOP EFFECTIVE SOFT SKILLS**

Working in a professional environment is much more than applying what you're learning at uni – it's also a chance to develop your soft skills in the workplace. Skills such as teamwork, communication, time management, adaptability and problem solving are all traits that potential employers look for and can help you land a job.

### **BUILD VALUABLE NETWORKS**

An internship as part of your UTS engineering or IT degree is a chance to make valuable connections and start building your industry network. Your work colleagues might become lasting contacts who let you know about potential job opportunities and act as your mentors and referees in the future.

### **CREATE A JOB-WINNING RESUME**

Completing internship programs as part of your UTS degree means you're able to offer something different on your resume by including your industry-relevant work experience. It's a sure-fire way to get you noticed by potential employers when looking for your first job out of uni.





# Internship FAQs

**We've covered your top questions on the Diploma in Professional Engineering Practice.**

**Q. WHAT IS THE DIPLOMA IN PROFESSIONAL ENGINEERING PRACTICE?**

It is a 48-week structured Practice Program, consisting of two six-month internships during students' engineering course.

**Q. OTHER UNIVERSITIES REQUIRE STUDENTS TO COMPLETE THREE MONTHS EXPERIENCE, ISN'T THAT ENOUGH?**

Developing complex engineering expertise can take a long time, typically three to four years post-graduation. The longer your internship, the greater exposure you'll have to the realities of the engineering world and the measures taken to tackle complex projects.

You'll complete two internships, one as early as second year and the other in fourth year, for a total of 12 months, which will give you a distinct advantage at a job interview (if you haven't already stitched up employment in your second internship).

**Q. WHAT SUPPORT DO I HAVE SECURING AN INTERNSHIP?**

The careers team are available to assist you with your job search. We maintain links with more than 1000 organisations offering both scholarships and internships, the latter being advertised on our in-house jobs portal, CareerHub. We also offer opportunities to find mentors, meet contacts and build networks that will prove invaluable in your career.

**Q. HOW MANY HOURS SHOULD I COMMIT TO MY INTERNSHIP?**

An internship is similar to a full-time job. You'll be expected to commit to the contracted hours of employment during this time. Don't worry, there are no other compulsory classes during this time so you can solely focus on your work placement.

**Q. DO I GET PAID FOR AN INTERNSHIP?**

Most students get paid during their internship, however this is at the discretion of the employer. The average work salary for UTS students ranges from \$700- \$1000 depending on their major and the students level of education.

**Q. I ALREADY HAVE WORK EXPERIENCE. DO I NEED TO COMPLETE AN INTERNSHIP?**

Yes, as part of the Diploma in Professional Engineering Practice you must complete an internship.

If your current role meets the requirements of the Diploma in Professional Engineering Practice, then you can register the internship via CareerHub (CareerHub is our very own job board dedicated to jobs for students).

**Q. WHAT EMPLOYERS WILL I WORK WITH?**

We partner with a range of companies across industry who employ UTS engineering students. They advertise available internships via CareerHub. You can also look for internships with other employers who are not current partners. These jobs can be found via SEEK or other national job boards.

**Our staff are here to help**

You're not on your own when looking for internships. Dedicated staff are available to assist you with resume writing, interview skills and job finding strategies.

# Are you up for the challenge?

## WHAT IS ENGINEERING?

Engineering is all around us. From the infrastructure of our cities to robotics, personal electronics, renewable energy, the Opal Card system and medical devices.

Today, engineers are pioneering solutions to global challenges in the areas of energy, water, food, the environment, technology, transport, housing, ageing populations and much more.

## WHAT SKILLS ARE NEEDED?

Engineers are true problem solvers. They are creative, logical and have strong attention to detail. This attention to detail is supported by strong mathematical skills, including mathematical modelling.

Communication, leadership and interpersonal skills are also vital as engineers influence lots of other people to adopt their ideas and work towards a shared vision.

## MATHS AND ENGINEERING

You don't have to be top of the class in maths to be an engineer, but it is important to have a strong foundation in maths.

We recognise that students enter UTS with varying backgrounds in mathematics, so we've designed a diagnostic tool known as the Maths Readiness Survey to help commencing engineering students select the first-year maths subject most appropriate to their background.

You can also enrol in mentor programs with other students, tutors and academics to assist with maths or other engineering subjects.

## BRIDGING COURSES

UTS provides bridging courses in chemistry, mathematics and physics for students who do not meet the assumed knowledge requirements of their course. Bridging courses are usually offered in February.

For more information, visit [uts.edu.au/future-students/science/essential-information/bridging-courses](https://uts.edu.au/future-students/science/essential-information/bridging-courses)

## NOT SURE WHICH MAJOR TO CHOOSE?

It can be a tough decision to choose a major when you've yet to experience core engineering subjects. The **flexible engineering** major allows you to mix and match subjects from any major.

You can combine complementary fields of engineering, or create your own unique skillset. If you change your mind, you can transfer to a designated major in your second year, provided you meet the academic requirements.

To 'engineer' literally means to 'make things happen'.





# Careers

**Engineering is your passport to success.  
Start your career journey at UTS.**

From the infrastructure of our cities to robotics, green vehicles, recycled water systems, mobile phones and renewable energy, engineering is all around us.

Today's engineers are pioneering solutions to global challenges in the areas of energy, water, food, environment, technology, transport, housing and the ageing population. It's this blend of engineering and technology that will be an in-demand combination across all industries around the world for years to come.

**Take a look at the prospects for engineers globally:**

**\$120 billion**

Value of the Australian Government's 10-year infrastructure investment pipeline

Australian Budget 2023-23

**\$70,000**

The median salary for graduate engineers

Australian Council for Engineering Deans 2021

**+50%**

increase in engineering job vacancy rate in December 2021 compared to December 2020

Australian Engineering Employment Vacancies, Engineers Australia, 2021

**95%**

of engineering students were in full-time employment three years after graduation

Graduate Outcomes Survey, 2021

**11,000**

engineering management roles available by 2023

Australian Government, Job Outlook

**60,000**

job openings for software and applications programmers by 2023

Australian Government, Job Outlook



# Prepare for the future

Engineers are playing a critical role in the technology revolution. Futurists predict six key areas of discovery that will influence future career pathways for graduates.

## ROBOTICS

Blending mechanical engineering, electrical engineering and computer science, intelligent systems will play an important role in business and in day-to-day life.

**Consider mechanical and mechatronic engineering, mechatronic engineering or software engineering.**

## AI

AI is a part of our everyday lives. Google's search algorithms, facial recognition tools, virtual personal assistants like Siri or Alexa, and video games such as *Call of Duty* are all examples of AI. By using data from the past we can make almost accurate predictions about the future.

**Consider mechatronic or software engineering.**

## INTERNET OF THINGS (IoT)

IoT includes networks of physical devices embedded with electronics, sensors, software and network connectivity that is allowing devices to connect and exchange data. IoT will shape the future of farming and many other industries, allowing for smarter decision making, improved monitoring of operations and output, and improved offering to customers.

**Consider data science, engineering or electronic engineering.**

## AUTONOMOUS VEHICLES

Self-driving cars will be the biggest disruption in transport history! Harnessing tech advances in machine learning, IoT and the cloud, we can expect to see a wide-spread uptake in autonomous vehicles in 10-15 years.

**Consider mechatronic or software engineering.**



## 3D PRINTING

Additive manufacturing turns 3D digital models into solid objects that are built up in layers. Using various types of material, 3D printing has the potential to radically transform the manufacturing industry, medical industry and architecture. UTS has its own 3D printing facility, the ProtoSpace.

**Consider using ProtoSpace, our 3D-printing facility, to support your engineering projects and research.**

## DATA SCIENCE

Data scientists use automated methods to extract knowledge or insights from structured or unstructured data to improve decision-making. We can see this in our day-to-day via predictive text, suggested Netflix shows based on viewing history and facial recognition on social media.

**Consider data science or software engineering.**

# Bachelor of Engineering (Honours), Diploma in Professional Engineering Practice

Take charge of your future at UTS.

## Bachelor of Engineering (Honours), Diploma in Professional Engineering Practice)

**2023 Selection rank\*:** See selection ranks on pages 14–25\*

**Duration:** 5 years full time (part time available for domestic students)

**Available intakes:** Autumn (February), Spring (July)

**UAC code:** See UAC codes on pages 14–23

**UTS course code:** C09067

**CRICOS Code:** 084099M

**Assumed knowledge:** HSC (or equivalent) English Standard, Mathematics Extension 1 and Physics. English Advanced is recommended, Chemistry is recommended for the Biomedical, Chemical Process, Civil, and Civil and Environmental majors.

## Bachelor of Engineering (Honours)

**Duration:** 4 years (full time only)

**Available intakes:** Autumn (February), Spring (July)

**UTS course code:** C09066

**CRICOS code:** 084098A

**Assumed knowledge:** HSC (or equivalent) English Standard, Mathematics Extension 1 and Physics. English Advanced is recommended, Chemistry is recommended for the Biomedical, Chemical Process, Civil, and Civil and Environmental majors.

\*Selection ranks: Published ranks indicate the minimum selection rank (ATAR plus any adjustment factors applied through eligible admission schemes) required to receive an offer by a domestic recent school leaver in the Autumn 2023 intake (for January Round 2).

### WHAT'S IT ALL ABOUT?

Get the in-depth preparation you need to make your mark in the engineering industry. Combine strong technical skills with transformative professional skills in complex problem solving, communication, innovation and team-work to deliver impact across local and global communities.

### CHOOSE YOUR MAJOR

You choose your major at the time of application to the course, but there are opportunities to change later.

- Flexible
- Biomedical<sup>#</sup>
- Chemical Process
- Civil, including specialisations in Construction and Structures
- Civil and Environmental<sup>^</sup>
- Data
- Electrical
- Electrical and Electronic<sup>^</sup>
- Electronic
- Mechanical
- Mechanical and Mechatronic<sup>^</sup>
- Mechatronic
- Software
- Renewable

See pages 14–23 for an explanation of these majors.

<sup>#</sup>Not available in combined degrees with Medical Science and Science

<sup>^</sup>Not available in combined degrees

### COMBINED DEGREES

The Bachelor of Engineering (Honours) can be combined with:

- Bachelor of Arts in International Studies<sup>\*\*</sup>
- Bachelor of Business<sup>\*\*</sup>
- Bachelor of Creative Intelligence and Innovation
- Bachelor of Laws<sup>\*\*\*</sup>
- Bachelor of Medical Science<sup>\*\*</sup>
- Bachelor of Science<sup>\*\*</sup>

The Diploma in Professional Engineering Practice may be added to the courses marked <sup>\*\*</sup> above.

See pages 28–33\* for further details on combined degrees.

<sup>\*\*\*</sup> Combined with Bachelor of Engineering Science

### ACCREDITATION

The Bachelor of Engineering (Honours) is accredited by Engineers Australia at the Graduate Professional Engineer level. The degree is recognised internationally by signatories to the Washington Accord.

For more information visit [ieagreements.org/accords/washington/](http://ieagreements.org/accords/washington/)

### INTERNATIONAL STUDENT?

Considering the Bachelor of Engineering Science? See page 33.



## Let's break it down. Here's what a UTS engineering program looks like.

### CORE

Core subjects are taken by all engineering students regardless of major and provide the foundational knowledge and skills required of every engineer.

### MAJOR

Develop the essential technical knowledge specific to your chosen field of practice.

Major subjects include a final-year Capstone Project, which is an in-depth research study on a topic of your choice. Many students work on their Capstone Project with one of their internship companies, while others work within the Faculty's research centres.

### ELECTIVES

Consolidate your expertise with additional engineering subjects, or expand your interests by enrolling in subjects from other faculties.

### PROFESSIONAL PRACTICE

The Diploma in Professional Engineering Practice is an internship program. You work in an engineering company of your choice for two periods of six months, generally in your second and fourth years.

### PREPARATION & REFLECTION

These subjects help you get the most out of your internships. You'll take them before and after your two internships as part of the Diploma. Think resume preparation, interview advice and e-portfolios including your experience.

### STUDIOS

Team-based projects that include a challenging industry task with multiple solutions. Implement the fundamentals of your learning, using the latest tools, whilst developing professional skills in communication, teamwork, complex problem-solving and creativity.

## Dylan James

Bachelor of Engineering (Honours)  
Mechanical Engineering major.

Bachelor of Science Applied Physics major.



**“The double degree has helped me start with two windows that have heaps of opportunities. I thought mechanical engineering would be a whole lot of engineering and basic movements, but there's much more material analysis and physics understanding. It keeps getting more and more unpacked.**

**“When you get to UTS, you know your space, and you know where you're going to go for lunch or a good study area. Even if it is one person or a group of people, having that network is important.”**

## Typical course structure for a single major

Year 1		Year 2		Year 3		Year 4		Year 5	
Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2	Session 1	Session 2
Core	Core	Core	Internship	Core	Core	Core	Internship	Capstone	Capstone
Core	Core	Major		Major	Major	Major		Major	Major
Major	Major	Major	Work Integrated Learning 1	Major	Major	Major	Work Integrated Learning 2	Elective	Elective
Major	Major	Major		Major	Major	Major		Elective	Elective
		Practice Preparation 1	Professional Experience 1	Practice Reflection 1		Practice Preparation 2	Professional Experience 2	Practice Reflection 2	

# Majors

The major represents your chosen engineering field of practice and will typically influence the career path you take. We have 11 majors to choose from, all leading to a wide range of career options.

## Flexible

2023 Selection rank\*: 81.20

UAC Code: 603105

### Explore the world of engineering.

The Flexible major gives you the option to design your own fully accredited interdisciplinary engineering degree with an academic advisor. So you can find that niche area – a blend between two or more existing majors and make it your own.

Alternatively, if you're not sure which engineering major you want to take, the Flexible major provides an opportunity to explore some engineering disciplines in your first year before transferring to a designated major.

### CAREER OPTIONS

Your technical, analytical and practical engineering skills, along with your logical thinking, will become your graduate attributes. Add to this an ability to identify problems, focus on solutions, work in teams, and manage projects and people, and you'll be sought after in a wide range of areas once you graduate.

Career opportunities span all engineering disciplines, including emerging areas such as:

- Site and Services Engineering
- Consulting
- Smart cities
- Renewable energy
- Industry 4.0
- Data analytics and visualisation
- Cybersecurity
- Medical technologies
- Humanitarian Engineering

## Dhanesh Chandolia

### Flexible Engineering



“Throughout my course, I was keen to learn about new engineering concepts. Studying at UTS not only provided me with in-depth knowledge about engineering concepts, but even provided me with an opportunity to apply the theoretical knowledge to real-life projects. UTS provided me with the flexibility to switch between courses without any hindrance and provided me with an option that was best suitable for my passion.

Even before graduating, I had one year of work experience in the engineering industry, and this would eventually help me to land a graduate role soon. Overall, I'm satisfied with the course content and the support that UTS provides.”

[Watch the Flexible Engineering webinar](#)

\*Selection ranks: Published ranks indicate the minimum selection rank (ATAR plus any adjustment factors applied through eligible admission schemes) required to receive an offer by a domestic recent school leaver in the Autumn 2023 intake (for January Round 2).



## Mariah Taleb

Bachelor of Engineering / Biomedical Engineering



“Graduating with an entire year of experience within my Biomedical Engineering degree gives me confidence and prepares me for the competitive engineering job market. Thanks to the hands-on learning environment, I am prepared for a career in the biomedical engineering sector by performing practical skills during my internships.

Completing these internships solidified which branch of biomedical engineering I want to go into, with the main goal of improving the quality of life of individuals.”

## Biomedical

2023 Selection rank\*: 82.25

UAC Code: 603130

### Break new ground in healthcare.

Biomedical engineering is multi-disciplinary by nature and covers a broad scope of areas relating to medical technology: geonomics, tissue engineering, bioinformatics, nanotechnology, nanotechnology, 3D printing, bioprinting, microfluidics, biomechanics and bio-instrumentation.

Biomedical engineers design and develop medical-related equipment and systems for analysis, diagnosis, therapy and rehabilitation. Their ultimate goal is to improve healthcare delivery and extend the quality and longevity of human life.

In this program, you'll learn the basics of biology and tissue engineering, information technology, electrical and electronic engineering, biomechanical engineering, additive manufacturing and medical science. Choose subjects based on your particular areas of interest such as biomedical instrumentation, bioinformatics, biomechanics, neuroscience, genetics and cancer, and biomedical applications of artificial intelligence.

### CAREER OPTIONS

When you graduate, you'll be ready to work with other engineers, IT professionals, medical staff and researchers thanks to this multidisciplinary field. As a biomedical engineer, you'll find opportunities in:

- Bioinstrumentation and biomedical device companies
- Biotechnology and biomechanics manufacturing companies
- Medical research centres or hospitals in Australia or abroad
- Medical Imaging and bioinstrument
- Medical devices
- Regulatory affairs
- Rehabilitation engineering
- Biomedical engineering research

You're also likely to work closely with electrical, mechatronic and ICT engineers, mechatronic, ICT engineers and medical professionals. You will find opportunities in many of the areas suggested for those majors.

## Pranitha Pedagandham

Bachelor of Engineering (Honours) Bachelor of Business majoring in Biomedical Engineering



“I wanted to choose a degree that combined my passion for healthcare and technology, as well as providing business knowledge, so the Bachelor of Engineering (Honours) Bachelor of Business majoring in Biomedical Engineering was perfect for me. Choosing this double degree has enabled me to explore both fields and has provided greater career flexibility.

I chose UTS as the engineering degrees have internships as part of the undergraduate program, and this has enabled me to gain practical experience in particular fields while studying. I'm currently completing an internship based on tissue engineering, providing me with greater insight on this area of biomedical engineering. During my time at UTS, I have also found a great support network of staff and students, providing networking and volunteering opportunities.”



Watch the Biomedical Engineering webinar

# Majors

## Civil

**2023 Selection rank\*:** 81.05

**UAC Code:** 603015

### Build tomorrow's future.

Civil engineers are problem solvers and visionaries who plan, design, build, and maintain infrastructure essential to the way we live our lives. These include buildings, stadiums, roads, bridges, tunnels, railways, mines, dams, water supply systems, wastewater treatment, as well as the physical infrastructure of electrical and telecommunication systems.

In this civil engineering program, you will learn all the key skills you need to become a professional civil engineer, plus skills in construction, project management, design and surveying. You'll also learn about the properties and use of concrete, steel, timber and soil, plus the physics and mechanics of large and small structures. You will also gain expertise in water supply systems, flood protection, sanitation, hydraulics and waste disposal.

### CAREER OPTIONS

Civil engineers work in office-based jobs in planning, consulting or design, as well as outside on construction sites managing and supervising projects. You will be able to work in any of the areas suggested for the Flexible major, as well as finding a range of civil engineering opportunities with:

- Major development and design firms
- Government agencies and their contractors
- Local councils
- Local and suburban engineering consultancies specialising in private, residential or commercial developments, water and flood management, road and rail infrastructure, or project management

## Civil (Construction)

**2023 Selection rank\*:** 81.30

**UAC Code:** 603095

### Meet the demands of a growing city.

Civil construction engineers specialise in the construction of large projects such as high-rise apartments or office blocks. They require high-level skills in communication, leadership, critical thinking and project management.

You'll learn all the key skills you need to become a professional civil engineer, as well as gain an understanding of human resources, finance, environmental planning and law. This includes how to support the preparation of development applications and environmental impact assessments. With cross-faculty subjects, you'll also learn the details of building services such as lifts, air conditioning, cabling, IT and telecommunications.

### CAREER OPTIONS

You can work in any of the areas suggested for the Civil major, and find opportunities with:

- Major developers
- Private commercial developers and consultancies

This specialisation is also ideal if you want to work as a private developer or consultant, as you'll have all the skills you need to run an entire construction project from start to finish.

## Mathew Da Silva Civil Engineering



**“As an intern with Sydney Trains, I was involved in major projects such as rail inspection projects or major re-railing projects. I was introduced to the maintenance world, where I was analysing data, validating it on site, risk assessing the defects, and eventually scoping the work and packaging it out.**

**I was also introduced to the project management side of engineering, as I was given a rail testing project where I was tasked with budgeting, scoping, planning, resourcing and executing works. It was a great exposure to the industry and I had always been keen to move into the project management area.”**



## Civil (Structures)

**2023 Selection rank\*:** 83.35

**UAC Code:** 603018

### Build the world around you.

Structural engineers specialise in the analysis and design of structures, ranging from small to large and highly complex. They use advanced design and modelling techniques to design efficient, long-lasting structures and to understand the traditional and advanced materials available for their construction.

In this program, you'll learn all the key skills you need to become a professional civil engineer, plus gain an advanced understanding of the behaviour of structures under stresses due to extreme weather, earthquakes or explosions.

Using leading-edge computer software to model, analyse and design structures, you'll also develop skills in assessing structural damage. This includes practical expertise in assessing and improving the safety of older structures that might be subject to loads and conditions they weren't originally designed to withstand.

### CAREER OPTIONS

You can work in any of the areas suggested for the Civil major, as well as finding opportunities with:

- Major commercial developers
- Government agencies and their contractors
- Engineering consultancies, particularly those that specialise in designing and building large structures or assessing existing structures

[▶ Watch the Civil Environmental Engineering webinar](#)

## Alexandra Devlin Civil and Environmental Engineering



**“The thing that I like about engineering is the practical side. You really see things come to life. It’s not just thoughts on paper – it’s thoughts on paper that turn into reality.**

**It’s about people, and it’s about connecting to people and project management.”**

## Civil and Environmental

**2023 Selection rank\*:** 81.30

**UAC Code:** 603005

### Join the global environmental movement.

Civil and environmental engineers are key to a sustainable future, with an expertise that's in demand to help safeguard our planet. They are experts in assessing environmental impact and design of green buildings, transport, waste and other engineered systems.

Civil and environmental engineers specialise in the efficient use of energy, protecting soil and water from contamination and design waste, pollution control and resource recovery systems. They are involved in impact assessment, treatment of contaminated sites, as well as management and design concepts across engineering disciplines.

In this program, you'll learn all the key skills needed to become a professional civil and environmental engineer. You'll also gain expertise in biotechnology, environmental analysis, ecology and physico-chemical processes, plus an understanding of the social, political and legal aspects of environmental planning and management.

You'll learn to design environmentally sustainable strategies and develop solutions for environmental topics including air, water, soil, noise, climate change and energy in your community.

### CAREER OPTIONS

You can work in any of the areas suggested for the Flexible major, plus find opportunities with:

- Environmental consultants
- Water, waste, soil and energy industries
- Local councils and government agencies
- Catchment management authorities
- International development organisations
- Non-government organisations

\*Selection ranks: Published ranks indicate the minimum selection rank (ATAR plus any adjustment factors applied through eligible admission schemes) required to receive an offer by a domestic recent school leaver in the Autumn 2023 intake (for January Round 2).

# New Majors in 2023



## Chemical Process

**2023 Selection rank:** N/A

**UAC Code:** 425550

### Create next-generation chemical processes.

Chemical process engineers are essential for creating the chemical products society needs in sectors like energy, agriculture and health. They are experts in the design and operation of chemical plants that transform raw materials as building blocks to transform them into functional, safe and sustainable products.

In this degree, you will learn all the necessary skills to become a professional chemical process engineer. You will gain experience in core scientific disciplines spanning physics, chemistry and biotechnology. You will also gain knowledge in emerging areas in digital literacy including automation, data science and engineering to create refined chemical products.

Students will be able to take advantage of the digital revolution and innovate by applying their knowledge to develop chemical products that facilitate environmental sustainability and economic prosperity.

### CAREER OPTIONS

Chemical process engineers are experts in the design and operation of chemical plants that transform raw materials into functional, safe and sustainable products for use in sectors like energy, Industry 4.0, sustainability, agriculture and health. Chemical process engineers will have opportunities to work with:

- Chemical engineering consultants
- State and federal government agencies
- Chemical processing industries producing various industrial materials such as fertilisers, pesticides, explosives and specialty chemicals
- Bioprocessing industries producing products such as pharmaceuticals, vaccines, food and beverages
- Energy and energy systems industries involved in energy conversion and storage, renewable gas, renewable fuel, and reactors and furnaces for industrial applications
- Petrochemicals industries involved in the conversion of oil and gas and renewable biochemicals into plastics, composite materials, synthetic textiles, and similar end uses
- Opportunities in advanced manufacturing, mining, climate change mitigation, circular economy, resource recovery, safety, production and quality management



Watch the **Chemical Process engineering** webinar

## Renewable energy engineering

**2023 Selection rank:** N/A

**UAC Code:** 603070

Renewable energy engineers are uniquely positioned to help society move from traditional sources of electricity generation towards a sustainable, carbon-neutral future.

### What will I learn?

As a renewable energy engineer, you will conceive, design, implement and operate large-scale energy projects using sustainable energy sources like solar, wind, hydro, geothermal and more.

You will draw on multidisciplinary perspectives and apply professional engineering capabilities to help meet the growing demand for clean and sustainable energy solutions in sectors such as power generation, manufacturing, transportation and more.

In doing so, you will play a vital role in helping the world manage climate change and help achieve the global target of net-zero emissions by 2050. This is your chance to have a real impact and help build a more sustainable future.

The UTS renewable energy engineering program will also equip you with the skills to manage future smart energy grids to help nations transition towards renewable energy generation while providing reliable and stable energy infrastructure.

In this exciting and evolving field, you also have the opportunity to work at the forefront of designing energy-efficient systems, battery storage, electric vehicles and other emerging technologies – or even take an entrepreneurial path and create your own renewable start-up.

### CAREER OPTIONS

You can work in any of the areas suggested for the Flexible major, plus find opportunities such as:

- Renewable energy project designer or manager
- Renewable energy power generation engineering (hydro, wind, biomass)
- Grid connection engineer
- Power systems engineer
- Process engineer and analyst
- Electrified transportation engineer
- Solar PV engineer
- Renewable energy modeller/analyst
- Microgrid, electric mobility and battery storage engineer
- Renewable energy entrepreneur
- Renewable energy accountant, auditor, innovator or consultant



This course opens later this year for enrolment for the Autumn semester of 2023.

### SHAPE THE FUTURE

Engineers need practical, creative skills to meet the challenges of tomorrow. Discover an engineering course to help you change the world.

**Learn more about the Bachelor of Engineering (Honours)**

**Learn more about your future at UTS**

 Watch the **Renewable energy engineering** webinar



# Majors

## Electrical

**2023 Selection rank\*:** 82.35

**UAC Code:** 603035

### Use renewable energy to power the future.

Electrical engineers deal with the generation and application of electricity, including high-voltage power generation and supply networks. With traditional power generation at the centre of global warming issues, electrical engineers are now at the forefront of developing renewable energy systems and super-efficient electrical devices that aim to reduce our energy demands.

In this program, you'll learn all about circuits, large-scale electrical system design and operation, energy generation, analogue and digital intelligent control (such as on-board computers in cars, aircraft or trains), 'fuzzy logic' systems and instrumentation (such as digital temperature and pressure gauges).

You'll graduate with practical skills in hardware and software that enable you to design and build large-scale electrical and control systems.

### CAREER OPTIONS

You can work in any of the areas suggested for the Flexible major, as well as finding opportunities with:

- Car, aircraft and train manufacturers
- Defence agencies and military hardware manufacturers
- Energy companies, including sustainable energy providers
- Biomedical and health engineering companies

You're also likely to work closely with mechanical, mechatronic, electronic and data engineers, and will find opportunities in many of the areas suggested for those majors.

### WHAT'S THE DIFFERENCE?

**Electrical engineers** design, maintain and build high-voltage power and control systems that run the world's electricity grids and other large-scale industrial applications. This includes both traditional and renewable energy generation, and control systems such as those found in factories, aircraft, trains and other vehicles.

**Electronic engineers** design small-scale circuits that live inside smart devices for consumers and industry. You learn about designing sensors, the Internet of Things (IoT), electronic components, miniaturisation of devices, and the software and communications systems that make them work.

## Kulsoom Hussain

### Electrical Engineering



**"I developed an interest in renewable energy when I was studying physics at high school. I really wanted to do more in the area of photovoltaics and work with communities, especially in remote areas, to help them access sustainable and reliable power.**

**I chose UTS because I also wanted to combine it with international studies, and UTS was the only place I could do this. I spent a year in China studying Mandarin, which was one of the best experiences of my life!**

**The other reason I chose to study at UTS is the internship component. The internships really give you a lot of valuable experience; a whole year in industry puts you in a better position than other graduates from other universities. UTS also has great industry partnerships and connections, which benefit students.**

**As I am about to leave uni, I am feeling pretty good about my situation – I have enough experience to help me find the right opportunity that aligns with what I want to do."**

## Electronic

**2023 Selection rank\*:** 82.20

**UAC Code:** 603045

### Design the next generation of smart devices.

Electronic devices are driving tech advances across global industries. Components are becoming smaller, faster, lighter and more power efficient, allowing for revolutions in computation and communication technologies.

As an electronic engineer, you combine engineering techniques and maths to design and build electronic hardware found inside smart devices. These devices include smartphones, smart watches, smart health monitoring devices and more.

In this program, you'll learn about digital systems, sensing, electronic analysis and design with a choice of sub-major in Internet of Things (IoT).

Graduate with practical skills in hardware and software that enable you to design and build miniaturised electronics systems giving you options to move into a range of global high-tech industries.

### CAREER OPTIONS

You can work in any of the areas suggested for the Flexible major, plus find opportunities in the following industries:

- Aerospace
- Automotive
- Construction
- Defence
- Marine
- Oil and gas
- Pharmaceutical
- Power generation
- Rail
- Telecommunications

You're also likely to work closely with mechatronic, electrical and data engineers, and will find opportunities in many of the areas suggested for those majors.

## Angus Ryan Electronic Engineering



**“Two six-month internships, as well as a modern, recently built engineering building, were the key factors that led me to study at UTS.**

**I'm taking my first internship at GetShift, a startup at the Australian Technology Park in Eveleigh. I've had the opportunity to build my own 3D printer, learn and develop Windows software, and design models within CAD. Most importantly, I created my own circuit from scratch. I've felt as if I haven't done a day of work, but rather spend months on my passion!**

**Studying electronics engineering at UTS has been intense but rewarding. I've learned so much from circuit design to programming my own digital system. What I enjoy about university is the ability to mould the study plan to your lifestyle, in my case giving myself two days off to work part-time at GetShift.”**

[▶ Watch the Electrical and Electronic Engineering webinar](#)

\*Selection ranks: Published ranks indicate the minimum selection rank (ATAR plus any adjustment factors applied through eligible admission schemes) required to receive an offer by a domestic recent school leaver in the Autumn 2023 intake (for January Round 2).

# Majors

## Electrical and Electronic

**2023 Selection rank\*:** 82.35

**UAC Code:** 603035

**Use smart electronic and electrical systems to support increasing complex human activities.**

Electrical and electronic engineers combine a range of communication and electrical energy technologies to underpin the ongoing transformation of how humans commute, stay connected and consume energy. Emerging technologies in areas like distributed energy (for example, microgrids) and Internet of Things have enabled more flexible use of power and information systems. There's increased demand for devices, software and systems that can handle increasing complexity, particularly in terms of security, efficiency and reliability.

In this program, you'll learn about communication circuits and sensors, energy circuits and systems, IoT components and software, digital intelligent control and embedded systems, and renewable energy systems design and operation.

You'll graduate with practical skills in hardware and software that enable you to design, development and control a range of IoT devices and energy systems.

### CAREER OPTIONS

You can work in any of the areas suggested for the Flexible major, as well as finding opportunities with:

- Wireless and IoT technology companies and product developers
- Transportation sector focusing on electrification
- Defense agencies and military hardware manufacturers
- Power and energy companies, including utilities and sustainable energy providers

## Data Science

**2023 Selection rank\*:** 80.50

**UAC Code:** 603060

**Combined expertise in advanced analytics and engineering is the gateway to business innovation.**

Data engineers create and manage secure cyber-physical systems and infrastructure to service the ever-growing demands of our computer-driven, data-centric society. These secure software and hardware systems enable organisations to innovate and optimise their services using broadband networking and powerful computing.

You'll learn professional engineering skills and the entrepreneurial values required to build and manage secure and reliable data platforms. You will also develop skills in advanced practice, gain in-depth knowledge in one or more areas of specialisation, and learn to embrace innovation in order to achieve excellence in your engineering future.

This major also uses project-oriented studios with participation from industry mentors.

### CAREER OPTIONS

- Data engineer
- Data architect
- Visualisation analyst
- Developer for Big Data platforms
- Data services engineer
- Data network engineer
- Software and systems multimedia and pattern recognition.



Watch the **Data Science Engineering** webinar

## Carmela Espinosa

### Data Science Engineering



**“Having an interest in STEM throughout high school, I wanted to delve further into this space and learn about how technology can be better used to shape our future, and how I can be a part of that change. With this, attending UTS and becoming part of the first school-leaver cohort to undertake this unique degree was an easy decision for me to make.**

**“UTS champions a future-focused curriculum and has structured this degree to incorporate a combination of both theory work and practical projects, with the help of industry partners. This enables the course to stay timely and relevant given the constant changes and innovations made in this industry. It is with this degree that I have developed the skills and experience needed to prepare me for my current role at a Big Tech company!”**



## Software

**2023 Selection rank\*:** 81.10

**UAC Code:** 603085

### Future proof your career.

Software engineering is the application of engineering principles to the design, development and maintenance of software.

It focuses on large, complex and critical software systems that are interwoven into our daily lives. Examples include power distribution, traffic control, autonomous vehicles and large systems that hold secure data – systems that must work every time.

A software engineer ensures that the software is built systematically, rigorously, measurably, on time, on budget and within specification to meet these complex demands.

You'll learn the scientific principles and mathematical methods used to solve critical problems in this discipline, as well as the trends and innovations shaping the international software industry. You will also develop skills in design and innovation, project management, economics and finance, and commercialisation and entrepreneurship.

### CAREER OPTIONS

- Software engineer
- Chief technology officer
- Development manager
- DevOps manager
- Enterprise architect
- Systems designer
- Consultant
- Chief architect



Watch the **Software Engineering** webinar

## Mikhail Fedulov

### Software Engineering



**“Last year I completed five hackathons in five different areas – including the Ericsson Challenge [a global competition that asks university students to solve major world challenges]. I enjoy working with other people, and being part of a hack team is a great way to learn technical skills, acquire knowledge of tools, and develop team- and project-management skills. I hope to work in consultancy and these are the skills that are in demand.”**

\*Selection ranks: Published ranks indicate the minimum selection rank (ATAR plus any adjustment factors applied through eligible admission schemes) required to receive an offer by a domestic recent school leaver in the Autumn 2023 intake (for January Round 2).

# Majors

## Mechanical

**2023 Selection rank\*:** 81.35

**UAC Code:** 603055

### At the forefront of technology innovation.

Mechanical engineering is the broadest of all the engineering disciplines. Mechanical engineers design, build and maintain anything that moves – from microscale sensors to jet plane engines, robots, biomedical devices, spacecraft, wind turbines and heavy industrial machinery.

In this major, you'll study dynamics and learn to calculate and control the movement and interaction of solid objects, fluids, heat and power. You'll also study some electrical engineering subjects and will apply your learning through hands-on projects that help you build the confidence and ingenuity needed to push the boundaries of machine-based technology.

### CAREER OPTIONS

You can work in any of the areas suggested for the Flexible major, plus find opportunities within:

- Aerospace companies
- Automotive companies
- Biomedical and health companies
- Chemical industry
- Defence agencies
- Electronics industry
- Marine industry
- Materials and metals industry
- Pharmaceutical industry
- Rail industry
- Robotics industry
- Utilities industry

You're also likely to work closely with electrical, mechatronic and ICT engineers, and will find opportunities in many of the areas suggested for those majors.

## Eugene Ho

**Mechanical and Mechatronic Engineering Graduate**



**“[The degree] has given me an edge over other applicants because I’m able to demonstrate that I can manipulate data and give them meaning. It provides a one-year internship requirement, which sets UTS students apart from a lot of university students.**

**“All the skills I learned at university got me quite far in my career; the degree has given me an extensive amount of work experience.**

**“Avoid biting off more than you can chew, take it slow, know what you want to do before committing, build connections as much as you can, constantly explore and be curious, because curiosity will take you far in life.”**

## Mechatronic

**2023 Selection rank\*:** 81.20

**UAC Code:** 603120

### Engineering for an autonomous future.

Mechatronic engineers work on all aspects of the smart machine, from design and testing to manufacturing. They use a combination of mechanical, electronics, computer systems and software engineering to design and build mechanical systems and their controllers, software and hardware, plus electronic processes and the networks that link them.

In this program, you'll study dynamics (the science of moving things) and learn to calculate and control the movement and interaction of solid objects and electricity. You'll also learn to design, build and manage automated and autonomous mechanical systems, with an emphasis on robots, smart machines, intelligent control systems and biomedical devices.

### CAREER OPTIONS

You can work in any of the areas suggested for the Flexible major, plus find opportunities with:

- Advanced machinery and robotics manufacturers
- Manufacturing and mining industries
- Research groups in nanotechnology, robotics and other developing fields

You're also likely to work closely with electrical, mechanical and ICT engineers, and will find opportunities in many of the areas suggested for those majors.

## Poojaben Darji Mechatronic Engineering



## Mechanical and Mechatronic

**2023 Selection rank\*:** 84.50

**UAC Code:** 603115

### Open up a world of high-performance opportunities.

This major brings together mechanical and mechatronic engineering subjects so that you gain an understanding at both specialisations. You'll study dynamics (the science of moving things) and learn to calculate and control the movement and interaction of solid objects, fluids, heat and electricity. You will also learn to design, build and manage automated and autonomous mechanical systems, with an emphasis on robots, smart machines, intelligent control systems and biomedical devices.

### CAREER OPTIONS

You can work in any of the areas suggested for the Mechanical and Mechatronic majors.



Watch the **Mechanical and Mechatronic Engineering** webinar

"I always had an interest in programming and automation. In the final years of high school I was fascinated by robotics! I wanted to delve into the industry, and for that I chose mechatronics. I became drawn to UTS Engineering because of its inclusive culture and the one year of professional experience the course had to offer.

Now going into my penultimate year, I feel assured that I have gained not only the skills and theoretical knowledge, but I have had the opportunity to practice as a student engineer. I am now looking forward to entering the industry with confidence in my ability as a mechatronic engineer."

\*Selection ranks: Published ranks indicate the minimum selection rank (ATAR plus any adjustment factors applied through eligible admission schemes) required to receive an offer by a domestic recent school leaver in the Autumn 2023 intake (for January Round 2).



# Bachelor of Engineering Studies

**2023 Selection rank\*:** N/A

**Majors:** Advanced Manufacturing, Engineering and Technology Studies, Flexible Engineering

**Duration:** 3 years full time or 6 years part time

**Available intakes:** Autumn (March), Spring (July)

**UAC code:** See UAC codes on pages 14-23

**UTS course code:** C10408

**CRICOS Code:** 603141

**Assumed knowledge:** HSC Mathematics Extension 1, Physics and English Standard.

## WHAT'S IT ALL ABOUT?

The course provides students with the skills required at an engineering technologist level – and hence the ability to work with professional engineers – without developing full professional engineering competencies.

It is intended for students who require a broad overview of STEM knowledge via the “Flexible Engineering” or “Engineering and Technology Studies” majors. It is also designed for students who want to specialise in a field of technology. For example, students with prior vocational qualifications may choose the Advanced Manufacturing major to learn the latest Industry 4.0 manufacturing technologies, without meeting the requirement for Engineers Australia professional accreditation.

Students can also become a STEM teacher by combining the Bachelor of Engineering Studies with a Master of Teaching in Secondary Education.

## Course structure

Students are required to complete 144 credit points, comprising:

CBK92027 Core choice	36cp
CBK91933 Major choice (Engineering Studies)	84cp
CBK90011 Electives	24cp
<b>Total</b>	<b>144cp</b>

Students admitted to Advanced Manufacturing major must select the choiceblock Core subjects (Advanced Manufacturing). Students in the Flexible Engineering major and Engineering and Technology Studies major must select the choiceblock Core subjects.

The major is selected at the time of admission; however, it is possible to apply to change major at a later stage. Students admitted to the Advanced Manufacturing major should decide by the end of the first year of full-time study whether to transfer to another major or continue with the Advanced Manufacturing program.

\*Selection ranks: Published ranks indicate the minimum selection rank (ATAR plus any adjustment factors applied through eligible admission schemes) required to receive an offer by a domestic recent school leaver in the Autumn 2023 intake (for January Round 2).

# Bachelor of Engineering Studies

## Master of Teaching in Secondary Education

<b>2023 Selection rank*:</b>	N/A
<b>Duration:</b>	4.5 years full time
<b>Adjustment factors:</b>	Applicable
<b>Assumed knowledge:</b>	Mathematics Extension 1, Physics and English (Standard). A sound knowledge of the fundamentals of programming is also recommended.
<b>Accreditation:</b>	NESA Accredited

Pursue your passion for technology and innovation with a combined degree in Engineering Studies and Education. In this unique program, you'll draw on the expertise of the UTS Faculty of Engineering and IT, a unit that is internationally recognised for its cutting-edge research, practice-based learning and extensive industry connections.

Throughout your Bachelor of Engineering Studies, you'll develop skills in design and problem-based thinking, mathematics, computer-aided design (CAD), networking, database design, coding, engineering, programming and systems analysis - just to name a few. These skills will prepare you to teach a range of technological and applied studies (TAS) subjects, as well as mathematics.

Alongside your engineering studies, our Master of Teaching educators will teach you how to engage, manage and support TAS learners. You'll then take those skills into the real world, with a structured and closely supported professional experience program. With a total of 80 days of classroom experience under your belt, you'll graduate as a highly capable and confident teacher, ready to manage any secondary school class.

### TEACHING AREAS:

First teaching area (major) in the following TAS areas:

- Engineering studies
- Industrial technology: graphics and multimedia (including graphics technology)
- Information processes and technology (including information and software technology)
- Software design and development (including information and software technology)

Plus a second teaching area (minor) in Mathematics

### COURSE STRUCTURE

- 6 Engineering Studies core subjects
- 14 Engineering Studies major subjects
- 7 Secondary Education core subjects
- 9 Secondary Education (TAS) major subjects



# Combined degrees

**Why settle for one specialisation?  
Create your niche by combining  
your areas of interest.**

## Bachelor of Engineering (Honours), Bachelor of Arts in International Studies

**2023 Selection rank\*:** 89.05

**Duration:** 5.5 years full time

**Add an extra year if undertaking  
the Diploma in Professional  
Engineering Practice**

**Available intakes:** Autumn (February)

**UAC code:** 609032

**UTS course code:** C09123

**CRICOS code:** 0100570

### Open up a whole world of opportunities.

With a combined engineering and international studies degree, you'll not only develop professional engineering skills from your chosen engineering major, you'll also open up a whole world of opportunities. The international studies component of this course gives you the rare chance to immerse yourself in another language and culture, develop an international perspective on your studies and broaden your thinking. The international studies component involves a year abroad in one of the nine regions that you can choose to study in the degree while pursuing a major research project in a field of your choice. UTS pays for your travel between Sydney and your country of study, tuition fees at the overseas institution, visa fees and the cost of the UTS Overseas Insurance Policy.

#### ENGINEERING MAJORS

Flexible, Biomedical, Chemical Process, Civil, Data Science, Electrical, Electronic, Mechanical, Mechatronic, Software.

#### COUNTRY MAJORS

Canada, China, France, Germany, Italy, Japan, Latin America, Spain, Switzerland.

#### CAREER OPTIONS

You can work in any of the areas suggested for your chosen engineering major within Australia or in another country. Engineering is an international discipline, and bilingual, global-thinking engineers are able to problem-solve anywhere in the world.







## Bachelor of Engineering (Honours), Bachelor of Business

**2023 Selection rank\*:** 83.05

**Duration:** 5 years full time (part time available for domestic students)

**Add an extra year if undertaking the Diploma in Professional Engineering Practice**

**Available intakes:** Autumn (February)

**UAC code:** 609350

**UTS course code:** C09070

**CRICOS code:** 084091G

**Honours:** Available in Business as an additional year (full time) to meritorious students

# Combined degrees

### Blend your technical engineering degree with high-level strategic thinking.

With a combined engineering and business degree, you'll develop the ability to succeed in both engineering and business environments.

As well as the professional engineering skills you'll develop in your chosen engineering major, you'll gain valuable and highly sought-after business skills from your business major. You'll graduate with the ability to use your engineering problem-solving skills in relation to people management, business management, finance, marketing or international business.

#### ENGINEERING MAJORS

Flexible, Biomedical, Civil, Data Science, Electrical, Electronic, Mechanical, Mechatronic, Software.

#### BUSINESS MAJORS

Accounting, Advertising and Marketing Communications, Economics, Finance, Human Resource Management, International Business, Management, Marketing.

#### CAREER OPTIONS

You can work in any of the areas suggested for your chosen engineering major, plus find opportunities in:

- Banking
- Accounting and economics
- Marketing
- Any commercial or business sector

Your engineering skills will enable you to understand and develop products, so you might find yourself particularly sought after by manufacturing businesses. Your business skills will ensure the product is financed, developed to meet consumer needs and marketed effectively. You'll also be ideally suited to the financial sector, running your own engineering business or senior management in an engineering setting.

\*Selection ranks: Published ranks indicate the minimum selection rank (ATAR plus any adjustment factors applied through eligible admission schemes) required to receive an offer by a domestic recent school leaver in the Autumn 2023 intake (for January Round 2).

# Combined degrees

## Bachelor of Engineering (Honours), Bachelor of Creative Intelligence and Innovation

**2023 Selection rank\*:** 82.20

**Duration:** 5 years full time

**Available intakes:** Autumn (February)

**UAC code:** 609560

**UTS course code:** C09076

**CRICOS code:** 084097B

**Honours:** Available in Creative Intelligence and Innovation to meritorious students

### Go a step further. Drive cross-disciplinary, industry and social change.

With a combined engineering and creative intelligence and innovation degree, you'll gain a blend of technical knowledge underpinned by a philosophy of innovation and creativity that will help you turn ideas into reality. The creative intelligence competencies you'll pick up should enable you to navigate a rapidly accelerating world of change.

As well as the professional engineering skills you'll develop via your chosen engineering major, you'll gain proficient skills in critical, inventive and creative thinking, future scenario building, business analysis, entrepreneurship, problem-solving, teamwork and communication. You'll also develop the ability to work on your own, as well as across and between other disciplines.

#### ENGINEERING MAJORS

Flexible, Biomedical, Chemical Process, Civil, Data Science, Electrical, Electronic, Mechanical, Mechatronic, Software.

#### CAREER OPTIONS

You can work in any of the areas suggested for your chosen engineering major and will be well-suited for a career within a fast-paced, innovative engineering environment. Your combined degree will equip you with skills that are particularly useful for positions involving:

- Product planning, strategy and design within a solutions-focused environment

These skills can also be used to start and market your own business.





## Bachelor of Engineering (Honours), Bachelor of Medical Science

**2023 Selection rank\*:** 81.20

**Duration:** 5 years full time (part time available for domestic students)

**Add an extra year if undertaking the Diploma in Professional Engineering Practice**

**Available intakes:** Autumn (February)

**UAC code:** 609370

**UTS course code:** C09074

**CRICOS code:** 084095D

**Honours:** Available in Medical Science as an additional year (full time) to meritorious students

### With a combined engineering and medical science degree, you'll go far.

Not only do you get to develop professional engineering skills via your chosen engineering major, but you will also gain an in-depth understanding of medical science.

In the medical science side of your degree, you will explore the fields of chemistry, biology, anatomy, biochemistry, microbiology, physiology, neuroscience, pharmacology and medical devices.

As well as your engineering major, you'll complete 13 core Medical Science subjects. For the full list of subjects see the relevant course information at [handbook.uts.edu.au/eng](http://handbook.uts.edu.au/eng)

#### ENGINEERING MAJORS

Flexible, Civil, Data Science, Electrical, Electronic, Mechanical, Mechatronic, Software.

#### CAREER OPTIONS

You can work in any of the areas suggested for your chosen engineering major, plus find opportunities in:

- Medical technology and instrumentation
- Biotechnology and bioengineering
- Nanotechnology and molecular biology
- Mining, agriculture and fisheries
- Environmental science
- Food and drink, product design, pest control or pharmaceuticals

\*Selection ranks: Published ranks indicate the minimum selection rank (ATAR plus any adjustment factors applied through eligible admission schemes) required to receive an offer by a domestic recent school leaver in the Autumn 2023 intake (for January Round 2).



# Combined degrees

## Bachelor of Engineering (Honours), Bachelor of Science

**2023 Selection rank\*:** 80.00

**Duration:** 5 years full time (part time available for domestic students)

**Add an extra year if undertaking the Diploma in Professional Engineering Practice**

**Available intakes:** Autumn (February)

**UAC code:** 609360

**UTS course code:** C09072

**CRICOS code:** 084093F

**Honours:** Available in Science as an additional year (full time) to meritorious students

### Back your engineering projects with scientific rigour.

With a combined engineering and science degree, you'll gain the technological expertise to determine scientific problems plus the practical engineering skills needed to implement effective solutions. Add to this cutting-edge practical laboratory skills, as well as an understanding of intellectual property and the ethical issues related to scientific research.

You'll need to choose a single engineering major for the Bachelor of Engineering (Honours) and a single science major for the Bachelor of Science.

Areas in which you can develop skills include DNA-centred technologies and applications, microbiology and biochemistry, therapeutic products (such as vaccines and drugs), scientific research and analysis, energy and resource exploration, urban ecology, and environmental biotechnology and sustainability.

#### ENGINEERING MAJORS

Flexible, Civil, Data Science, Electrical, Electronic, Mechanical, Mechatronic, Software.

#### SCIENCE MAJORS

Applied Physics, Biomedical Science, Biotechnology, Chemistry, Environmental Science, Mathematics, Medical Science, Nanotechnology.

#### CAREER OPTIONS

You can work in any of the areas suggested for your chosen engineering major, plus find opportunities in:

- Medical technology and instrumentation
- Biotechnology and bioengineering
- Nanotechnology and molecular biology
- Mining, agriculture and fisheries
- Environmental science
- Food and drink, product design, pest control or pharmaceuticals

# Combined degrees

## Bachelor of Engineering Science\*, Bachelor of Laws

**2023 Selection rank\*:** N/A

<b>Duration:</b>	5.5 years full time
<b>Available intakes:</b>	Autumn (February)
<b>UAC code:</b>	609050
<b>UTS course code:</b>	C10136
<b>CRICOS code:</b>	040713B
<b>Honours:</b>	Available in Law to meritorious students

\*Not accredited by Engineers Australia

### A blend of technical knowledge and legal skills.

With a combined engineering science and law degree, you'll gain a blend of technical knowledge and legal skills that enable you to become a legal practitioner in New South Wales.

As well as the engineering skills you'll develop via your chosen engineering major, you'll gain an overview of the legal system, technology legislation, technology-specific criminal law, contract law and environmental law.

If you wish to obtain full recognition as a graduate lawyer, you have the option of completing the Practical Legal Training Program. With a year of further study, you also have the option of graduating as a professional engineer.

### ENGINEERING MAJORS

Flexible, Chemical Process, Civil, Data Science, Electrical, Electronic, Mechanical, Mechatronic, Software.

### CAREER OPTIONS

You can work in any of the areas suggested for your chosen engineering major, plus find opportunities as a:

- Legal advisor
- Legal investigations analyst
- Patent associate
- Policy analyst
- Compliance and regulatory affairs officer
- Consultant

You can work in engineering, law firms or both. Law firms need lawyers with technical expertise and the engineering industry needs technical specialists with legal knowledge. Demand for these skills is high. In fact, this combined course was developed in response to this very demand.



\*Selection ranks: Published ranks indicate the minimum selection rank (ATAR plus any adjustment factors applied through eligible admission schemes) required to receive an offer by a domestic recent school leaver in the Autumn 2023 intake (for January Round 2).

# Degree add-ons

Stand out from the crowd with a Diploma in Innovation or a Diploma in Languages.

## Smarter futures start here

**The Diploma in Innovation is a qualification that adds to your degree by preparing you for the future of work. It responds directly to industry demand for graduates who can collaborate across disciplines.**

There's an emphasis on entrepreneurial thinking, too: by the time you graduate, you'll be ready to be an entrepreneur or intrapreneur. Our course content embraces the unlimited possibilities of the new world of work. Subjects include three-week intensive studios on innovation and entrepreneurship, explorations of complexity and sustainability, and deep dives into concepts of frame innovation and futures thinking.

Interested? You can add the diploma to any UTS bachelor degree (except Bachelor of Creative Intelligence and Innovation). What's more, all diploma subjects are offered as winter and summer school intensives, so even though you're adding an extra qualification, you'll still graduate on time.

## Gain a global outlook

**Add the Diploma of Languages to your degree to bring the world to your doorstep.**

Add this one-year diploma to your UTS degree to gain language and cultural skills, build your professional identity, and graduate with a range of capabilities that will prepare you for an international career. Language options include Chinese, French, German, Italian, Japanese and Spanish.

No need to apply just yet – the diploma is available to students already studying an undergraduate or postgraduate coursework degree program at UTS, so sign up when you enrol. No matter what you study, the diploma can give your qualification an international edge.





# Additional courses for international students

## Bachelor of Engineering Science\*

Direct entry open to international students only

**Duration:** 3 years (full time only)

**Available intakes:** Autumn (February), Spring (July)

**UTS course code:** C10066

**CRICOS code:** 033909D

As an international student looking for technologist-level studies, this course is for you. You won't receive professional engineering status, but you will gain graduate attributes similar to those gained in the Bachelor of Engineering (Honours). These will allow you to work with professional engineers.

### ENGINEERING MAJORS

Chemical Process, Civil, Data Science, Electrical, Electronic, Flexible, Mechanical, Mechatronic, Software

\*Not accredited by Engineers Australia



# Women in Engineering and IT (WiEIT)

Join us to build a world designed for humanity.

**We create and lead social change so that study and career journeys in engineering and IT are not limited by gender. As an engineering student at UTS, you are a part of our diverse community of inspiring students, staff, professionals and allies who will be part of your journey with us from your first day to graduation.**

**Maryam Kausar**  
Bachelor of Engineering (Honours) Diploma in Professional Engineering Practice majoring in Mechatronic Engineering



## LEAD SOCIAL CHANGE

Join our diverse community of Gender Equity Ambassadors to lead and create social change. The program's main objective is to equip our community with skills, knowledge and confidence to be social change agents for gender equity in their circles of influence. We provide Ambassadors with training, workshops and events/activities to actively contribute to gender equity in our university and local community, including schools.

## DEDICATED HANG OUT SPACE

Find your people in the WiEIT Cube on Level 5 in Building 11, the Faculty of Engineering and IT building on our city campus. Use this space to meet the community, host events, ideate projects or just hang out with friends.

## INSPIRE FUTURE GENERATIONS

Engineering and technology fields need diverse minds to design solutions that include the needs of those who are different and similar to us.

Inspire girls in primary and high school to create the change of tomorrow by sharing your own journey and helping them build the skills and confidence through our STEM school outreach initiatives.

## CONNECT WITH AN INDUSTRY PROFESSIONAL THROUGH MENTORING

From second year onwards, connect with an engineering industry professional through the Lucy Mentoring Program. Your industry mentor will help guide your study and career journey, no matter whether you have no plan, one plan, or many plans.

Not sure which career pathways are for you? Your mentor's experience and advice could help design your future career.

Does mentoring really help? Yes! In 2021, 115 women participated in the Lucy Mentoring Program. Of those who participated:

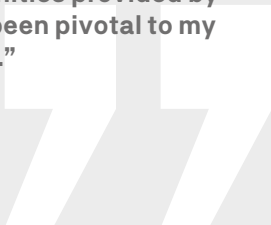
- 82% of students were confident in making career decisions after the program, compared to 10% before the program.
- 79% of students could identify women role models in their field, compared to 27% before the program.

## GET INVOLVED

Check out our website for more info on what we do and join our Women in Engineering and IT community on Facebook. We share events, internships, jobs, scholarships, volunteering opportunities and things to get involved with. Join us for social events, networking with industry, online and on-campus events!

[wieit.uts.edu.au](http://wieit.uts.edu.au)

“Volunteering and working with WiEIT has been one of the most rewarding experiences I have had at UTS. The team is incredibly welcoming and supportive, and the programs and opportunities provided by WiEIT have been pivotal to my career goals.”



## Scholarships

The **Women in Engineering and IT Cooperative Scholarship** is proudly sponsored by industry to increase the participation of women in engineering and IT. This is a four-year scholarship valued at \$66,000, which includes industry work placements.

The **Faculty of Engineering and IT Women in Engineering and IT Scholarship** is available for incoming female students. This scholarship is valued at \$10,000 over one year.

Eligibility criteria apply.

See [uts.edu.au/wieit-scholarships](https://uts.edu.au/wieit-scholarships) for information.

## Caitlin Murphy

**Bachelor of Engineering (Honours) Diploma in Professional Engineering Practice majoring in Software Engineering**



“WiEIT has provided me with a sense of ‘home’ at UTS. I immediately felt welcomed and as though I had a support network I could turn to during my first year at uni. The range of events on offer has allowed me to learn about different cultural celebrations and hear from a diverse range of perspectives.

The WiEIT co-op scholarship program has given me a set of ‘in-built friends’ in the other scholars. We connected instantly and it’s great to have a group of people to go through uni together with. Additionally, my WiEIT summer internship has given me

invaluable learning experiences after just my first year of uni. It was really interesting to learn the day-to-day routine of someone in the industry, and has provided me with a new perspective on the skills I am learning in my degree. I was exposed to industry-standard software and many problem-solving scenarios that don’t occur while studying. However the most valuable aspect was talking to and learning about all kinds of tech roles such as developer, business analyst, project manager or tester, and consider in what direction I want to take the rest of my studies.”



# University life

**There's no one-size-fits-all approach to university life!**

**Anyone who has ever been a uni student will tell you that getting involved in clubs and societies makes the whole ride pretty incredible.**

We have over 100 clubs and societies on campus, along with bars, cafés and a range of sporting facilities. To ensure you feel confident and supported, we offer help with housing, money, making friends, health, cultural issues and career development.

Students explore robotics in the Centre for Autonomous Systems.  
Photo: Christopher Shain



## **UTS ENGINEERING SOCIETY**

Hang out with your cohort and get involved in social events, industry events and networking opportunities with one of the largest clubs on campus.

[utsengsoc.com.au](http://utsengsoc.com.au)

## **UTS ROBOTICS SOCIETY**

Discover everything robotics, from servos to software, and connect with like-minded students. Gain access to equipment, participate in robot-building competitions and receive support from industry. With projects ranging from fully autonomous robotic systems to candy dispensers, they provide you with the opportunity to combine creativity and technology to form new ways of interacting with the world around us.

[utsroboticssociety.org](http://utsroboticssociety.org)

## **UTS CYBER SECURITY SOCIETY**

Boost your programming knowledge with exclusive workshops and study help sessions and learn how to defend against attacks through the techniques that attackers use.

## **UTS MOTORSPORTS**

Showcase your ingenuity by building and racing an open-wheel race car. The motorsports club has represented UTS in the Formula SAE Australasia competition for 10 years, and raced an electric car in the event for the first time in 2015.

[utsmotorsports.com](http://utsmotorsports.com)

## **ENGINEERS WITHOUT BORDERS**

Build your leadership and sustainability skills and apply theory to humanitarian engineering projects. Opportunities include doing an internship overseas or participating in an overseas volunteering experience through UTS BUILD.

[ewb.org.au](http://ewb.org.au)

## **HELPS**

Higher Education Language and Presentation Support (HELPS) provides non-credited English language and academic literacy support to UTS students. Enhance your learning experience with individual and group support in a friendly and respectful environment.

[helps.uts.edu.au](http://helps.uts.edu.au)

We encourage you to check out the full list of clubs and societies at:

[activateuts.com.au/clubs](http://activateuts.com.au/clubs)

# Discover entrepreneurship at UTS

Interested in entrepreneurship but not sure how to get involved?

Every career path benefits from an entrepreneurial mindset. UTS equips you with the tools to become entrepreneurs, whether it's with UTS Startups community or the entrepreneurial subjects, courses and degrees at UTS - there's an entrepreneurial offering available for you!

## ENTREPRENEURIAL COURSES, SUBJECTS AND DEGREES

Gain insight into the world of entrepreneurship with subjects available across the undergraduate and postgraduate degrees, diplomas and certificates at UTS. You'll be introduced to entrepreneurial methods and tools to solve problems, test ideas, create impact and launch businesses.

## BEGIN YOUR JOURNEY AT UTS STARTUPS

Got an idea and the passion to make it into something big?

UTS Startups inspires and supports current, past and aspiring UTS students to pursue technology-enabled entrepreneurship. Access free collaborative workspaces, expert mentors, a community of like minds and much more.

[startups.uts.edu.au](http://startups.uts.edu.au)



# Global opportunities

## Ready for the world beyond?

**At UTS, we're committed to getting you out into the world – in fact, we send more students overseas than any other uni in NSW. So what are you waiting for?**

Dive headfirst into the language and culture of another country, travel the world during uni break, and get a global perspective on your engineering degree that'll set you apart from your peers.

### GLOBAL EXCHANGE

Study overseas for one or two teaching sessions at a UTS partner university. There are 256 exchange partners in over 43 countries and territories to choose from.

### INTERNATIONAL INTERNSHIPS

The Bachelor of Engineering (Honours) includes two six-month internships, which can be taken with a local or international company. Students who intern overseas develop an international business network, add another language to their resume, plus gain exposure to multinationals who don't have offices in Australia.

### BUILD FOR SHORT-TERM INTERNATIONAL OPPORTUNITIES

BUILD (Beyond UTS International Leadership Development) is a program that will help you develop your leadership potential through a range of local and global opportunities. You could study Amazonian languages in Peru, French in Switzerland, or work with a social enterprise supporting developing communities with education or electricity.

### ENGINEERS WITHOUT BORDERS (EWB)

EWB gives you the opportunity to operate as a humanitarian engineer in local and regional communities. The program aims to develop key social skills essential to being successful team leaders on the forefront of social change.







# UTS Early Entry Program

Designed for high-achieving students, the UTS Early Entry Program lets you secure a place in your preferred UTS degree before you've even finished high school. Applications are submitted directly to UTS and you'll be assessed on your Year 11 marks.

## 1 Check your eligibility

You can apply to the UTS Early Entry Program if you're either:

- an Australian citizen or permanent resident studying a current Australian Year 12 or IB; or
- an onshore international student studying a current Australian Year 12 or IB.

## 3 Receive your offer

If your Early Entry application is successful, you'll receive a provisional offer from UTS before you sit your final exams. How's that for a good deal? But take note: a provisional offer requires you to complete your HSC/IB (or equivalent) and you might need to meet additional entry requirements to confirm your eligibility.

## 2 Submit your application

Applying is easy, free and direct to UTS through our Early Entry Portal. You can list three course preferences on the application form - make sure you list the course you want to study in the #1 slot\*.

If you're an **HSC student**, your Year 11 results will automatically be uploaded when you apply. If you're an **IB or interstate student**, you'll also need to complete the UTS Early Entry Program Year 11 Results Form and submit it along with your application.

## 4 Get ready for life at UTS

Accept your offer to UTS! You can also begin enrolling in subjects and choosing your timetable for the year ahead.

\*Some UTS courses are excluded from the Early Entry Program.



Learn more about the UTS Early Entry Program

[uts.edu.au/early-entry](https://uts.edu.au/early-entry)







# Scholarships

At UTS, we're all about rewarding effort – and supporting circumstance. That's why we offer more than \$12 million in UTS coursework scholarships and prizes every year. If you're a high achiever, in financial need, or if you're from a diverse background, a UTS scholarship can help take care of your finances so you can focus on the important stuff.

## Scholarships for high achievers

Academic achievement is worth celebrating – and our high achievers' scholarships do just that. Some scholarships are awarded across all UTS undergraduate degrees (e.g. the UTS Vice Chancellor's Outstanding Achievement Scholarship, valued at \$12,500 per year for the duration of the course), while other scholarships are offered through our faculties (e.g. the Engineering and IT Dean's Scholarship, valued at \$10,000 per year).

## Co-operative scholarships

Get a foot in the door of your chosen profession with an industry-sponsored scholarship. These co-op scholarships provide funding to support your studies, and they usually include an internship with the partnering organisation as well. Interested? You'll need a good academic record, demonstrated leadership potential, enthusiasm and dedication, as well as a genuine interest in your chosen field.

UTS offers:

- Engineering industry-based merit scholarships

## Equity scholarships

Our equity scholarships aim to overcome financial disadvantage in whatever form it takes. Whether you have a disability or ongoing medical condition, a rural home address, a refugee background or carer's responsibilities, these scholarships can help make university study possible.

## Scholarships for women

We pride ourselves on providing an inclusive work and study environment for women – in fact, we've been consistently recognised by the Workplace Gender Equality Agency for our efforts. We offer several scholarships to encourage women to undertake study in different areas.

## Scholarships for Indigenous Australians

We're committed to offering scholarships and prizes to support Aboriginal and Torres Strait Islander students. Some of these are awarded on academic merit while others are equity-based.

## Scholarships for athletes

You've given your life to your sport – now let your sport give something to you. ActivateUTS assists students to combine high-performance sport with their studies, so you'll be supported to excel in both areas. They offer three scholarships: the Elite Athlete Program, Emerging Athlete Program and Elite Athlete Housing Scholarship.

We also offer a few other scholarships for athletes to assist you in pursuing your academic and sporting goals.

## Application dates

Scholarship application dates vary. Be sure to check the UTS scholarship website for specific closing dates.

## Which scholarship is right for me?

With so many scholarships on offer, it can be tricky to figure out which ones you're eligible for. Use our online search tool to filter scholarships according to the criteria that best describes you.

**More info:**

[uts.edu.au/scholarships](https://uts.edu.au/scholarships)

\*Selection ranks: Published ranks indicate the minimum selection rank (ATAR plus any adjustment factors applied through eligible admission schemes) required to receive an offer by a domestic recent school leaver in the Autumn 2023 intake (for January Round 2).

## Engineering Scholarships for commencing students (local)

Scholarship name	Awarded to	Benefit	Duration	Selection rank*	Other
<b>WOMEN IN ENGINEERING AND IT COOPERATIVE SCHOLARSHIP</b>	High-achieving female students that have a passion and interest in pursuing a career in engineering. Industry sponsored. <b>Multiple scholarships available.</b>	\$66,000 over 4 years + 3 industry placements	4 years	85+	Applicants are required to attend an interview at UTS as part of the selection process.
<b>FEIT WOMEN IN ENGINEERING AND IT SCHOLARSHIP</b>	High-achieving female students that have a passion and interest in pursuing a career in engineering. Faculty sponsored. <b>Multiple scholarships available.</b>	\$10,000	1 year	85+	Applicants are required to attend an interview at UTS as part of the selection process.
<b>ENGINEERING AND IT DEAN'S SCHOLARSHIP</b>	High-achieving commencing students with the top Selection Rank* enrolled in a UTS Faculty of Engineering and IT undergraduate degree. More than one available.	\$10,000 per year	2 years	95+	Merit
<b>LINDEN LITTLE ENGINEERING EQUITY SCHOLARSHIP</b>	Current school leavers experiencing financial need and other educational disadvantage that can make it difficult to access and succeed in tertiary education. Available to commencing students in the Bachelor of Engineering (Honours) Diploma in Professional Engineering Practice in any major.	\$15,000 per year	2 years	80+	Equity
<b>THE ELEANOR DUNN SCHOLARSHIP IN ENGINEERING</b>	Applicants who have the potential and commitment to study electrical, mechanical, mechatronic, software or data engineering — major/double major, and are from a financially disadvantaged background or experiencing other educational barriers.	\$5000 per year	5 years	N.A.	Equity preferred
<b>WJ &amp; LM SINCLAIR SCHOLARSHIP IN ENGINEERING</b>	Applicants who have the potential and commitment to study engineering, are of Aboriginal or Torres Strait Islander descent and/or are from a financially disadvantaged background. Up to two student scholarships may be offered to students enrolled in any major of Bachelor of Engineering (Honours) Diploma in Professional Engineering Practice.	\$10,000-\$20,000 per year	5 years	69+ or 80+	Equity

## Cross-faculty scholarships

Scholarship name	Awarded to	Benefit	Duration	Selection rank*	Other
<b>RICHARD CROOKES CONSTRUCTION MERIT SCHOLARSHIP FOR WOMEN</b>	Elite female students in the fields of study relevant to the building industry with the desire to support and increase the number of qualified female professionals in the building industry.	\$15,000 + paid placement	2 years	N.A.	Merit
<b>WEBUILD – AUSTRALIA TOMORROW'S BUILDERS SCHOLARSHIP</b>	Supports students in the Faculty of Engineering and Information Technology (FEIT) and/or the Faculty of Design, Architecture and Building (DAB) who have an interest in the construction and infrastructure sector. Salini Impregilo wants to bolster Australia's growth by supporting long-term infrastructure plans, working with today's generation and into the future.	\$10,000 + paid placement	1 year	N.A.	Merit
<b>WESTERN EARTHMOVING SCHOLARSHIP FOR CONSTRUCTION AND ENGINEERING</b>	Supports a broad range of students in the engineering and construction disciplines. The scholarship engages students to deepen their understanding and experience of Western Earthmoving's work and its impact in the development industry.	\$10,000 + paid placement	1 year	N.A.	Merit

### As a current student, you can apply for scholarships with:

- Ericsson
- Canon Medical Systems
- Thales
- And more!

Visit [uts.edu.au/scholarships](https://uts.edu.au/scholarships) to see all scholarships offered at UTS Engineering and IT.

\*Selection ranks: Published ranks indicate the minimum selection rank (ATAR plus any adjustment factors applied through eligible admission schemes) required to receive an offer by a domestic recent school leaver in the Autumn 2023 intake (for January Round 2).





# How to apply

Ready to take the first step in your UTS journey?  
Here's what you need to know.

## Getting in

When it comes to getting into UTS, how we assess your application depends on the type of applicant you are:

- If you're a **recent school leaver** applying through UAC, we'll look at your selection rank (a combination of your ATAR/IB score plus any adjustment factors you receive).
- If you're a **non-recent school leaver**, we'll look at your highest qualification rank, which may come from your ATAR/IB score or post-secondary studies, plus any relevant work experience, adjustment factors and admissions criteria required for your course.
- If you're an **Aboriginal and/or Torres Strait Islander student**, you can apply to UTS via UAC or through the UTS Jumbunna Institute for Indigenous Education and Research. The Jumbunna team will assess your application and either offer you a place in your preferred degree or in a pathway program that will prepare you to get the most out of uni life.

**Please note:** This guide is not intended for international students. Please visit [uts.edu.au/international](https://uts.edu.au/international) for information on international applications.

## No pre-requisites

Here's some good news: there are no pre-requisites for UTS degrees, so you can apply for any course that interests you.

However, some courses have an assumed knowledge component, which means you might need to brush up on specific skills before you start your studies.

Need some help? UTS offers **bridging courses** in key areas to prepare you for university study.

[uts.edu.au/science-bridging-courses](https://uts.edu.au/science-bridging-courses)





# Applying is as easy as 1, 2, 3, 4

## 1 Choose a course

Want to study at UTS? The first step is choosing the right degree. Check out the course information pages of this guide (pages 12-33), as well as the UTS website. Got questions? Bring them to a UTS faculty event, information session or to UTS Open Day and chat to our team about your course and career options.

## 2 Check your eligibility

Admission requirements and additional selection criteria vary from course to course, so make sure you understand what's required for your chosen degree. And if you need a boost, UTS offers an Early Entry Program, as well as a range of admission schemes and pathways (see pages 42). Now's also a great time to check your eligibility (and the closing dates!) for scholarships (see page 44).

## 3 Apply through UAC

Lodge your UTS application and any additional documents via the University Admissions Centre. You can list up to five course preferences, so make sure you use them all! Our recommendation? Start with the course you most want to study and work your way down. If you meet the admission requirements, you'll be eligible for an offer for the first course on your list.

[uac.edu.au](https://uac.edu.au)

## 4 Accept your offer

The majority of UTS offers are released during December Round 2 via UAC. Your letter of offer will include instructions on how to accept or defer your place. Check the UAC website for the latest updates and offer round dates.

**Need more info? Check out the UAC Guide or visit the UAC website to make sure you understand the application process and key dates. Early bird applications close at the end of September 2023\*, so don't be late!**

### Once you're in ...

... you're in! If you receive an offer to study at UTS, keep the following dates in mind:

#### 5-16 February 2024:

Orientation Autumn Session for new students.

#### 19 February 2024:

Autumn Session begins.

\*Correct at the time of printing. Visit [uac.edu.au](https://uac.edu.au)





eng.uts.edu.au/future



## UTS Open Day

26 August 2023

Register at [openday.uts.edu.au](https://openday.uts.edu.au)

### CONNECT WITH US



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♦THE Young University Rankings 2023

UTS CRICOS 00099F  
UTS TEQSA PRV12060

40470 August 2023

Images: Toby Burrows, Anna Zhu, Andy Roberts,  
Kwa Nguyen, Adobe Stock.

DISCLAIMER: The information in this brochure is correct as at July 2023. Changes in circumstances after this date might alter the accuracy or currency of the information. UTS reserves the right to alter any content described in this brochure without notice. Readers are responsible for verifying information that pertains to them by contacting the university.

Note, this guide is for domestic students. International students should refer to the International Course Guide or [uts.edu.au/international](https://uts.edu.au/international)