



Information Technology

Undergraduate Courses 2020

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



Welcome to UTS

Information Technology

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Faculty snapshot

7195	undergraduate
2757	postgraduate
902	higher degree research
10,854	total

UTS at a glance (2018)




45,930	students
15,134	international students
33,070	undergraduate students
10,720	postgraduate coursework
2140	higher degree research students
3896	staff

UTS student diversity

49%	female students
51%	male students
31%	are 25 or older
49%	also speak a language other than English

Please note the above numbers are approximate as of January 2019.

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 information technology at UTS?

Experience the UTS difference.

INDUSTRY FOCUSED LEARNING

Nothing prepares you better than real industry experience. Climb the ladder faster by combining theory and practice in an internship connected to your degree.

FUTURE READY

You're at uni to become one of the creators of the future. Do that in the most forward-thinking spaces and hi-tech, future-first laboratories available. Ours!

A FOOT IN THE DOOR

Get an internship that will help fuel your future with one of our 1,000 partner companies. Our team will help you secure it. The UTS internship team is here to help you turn access into valuable work experience. It's this type of know-how that sets you apart from your peers when you graduate.

SEE YOUR IDEAS FLOURISH

TIME Magazine, Snapchat, Reddit, Facebook, Google, Dropbox, WordPress and Yahoo were all founded in universities. Be where opportunities happen. 40% of Sydney's tech start-ups are in our neighbourhood and we offer dedicated services and programs to mentor students with ideas and ambitions.

EXPAND YOUR HORIZONS

Every door in the world is open to you right now. 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 SOMETHING THAT MATTERS

Choose the Honours program and you'll work on research that could change the world for millions of people. Visit uts.edu.au/it-honours to find out more and learn about the real-world projects you could be involved in.

PROFESSIONAL FROM DAY ONE

Step one listen, step two do. IT subjects are delivered by industry professors who understand the importance of practice. Be a true professional from the start, by applying your skills to real industry challenges, hackathons and showcases.



256

exchange
agreements in
43 countries

Top 100

Globally for graduate
employability

QS Graduate employability Rankings 2019

**5 star
rated**

for excellence



UTS was awarded 5 stars in all 8 categories
by QS World University Rankings

NO. 1

for Computer
Science in NSW

Times Higher Education World University
Rankings by Subject 2019

NO. 1

UTS ranked Australia's
#1 young* uni

*Times Higher Education 150 Under 50 rankings,
2015 - 2018. QS World University Rankings Top 50
Under 50, 2016-2019

Top 200
universities
globally

QS World University Rankings 2019
and Times Higher Education World
University Rankings 2019

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 900m² additive and advanced manufacturing facility that actively supports education, exploration and innovation. This unique lab is unlocking the next generation of manufacturing opportunities, giving UTS students access to cutting-edge 3D technologies, software and technical expertise.

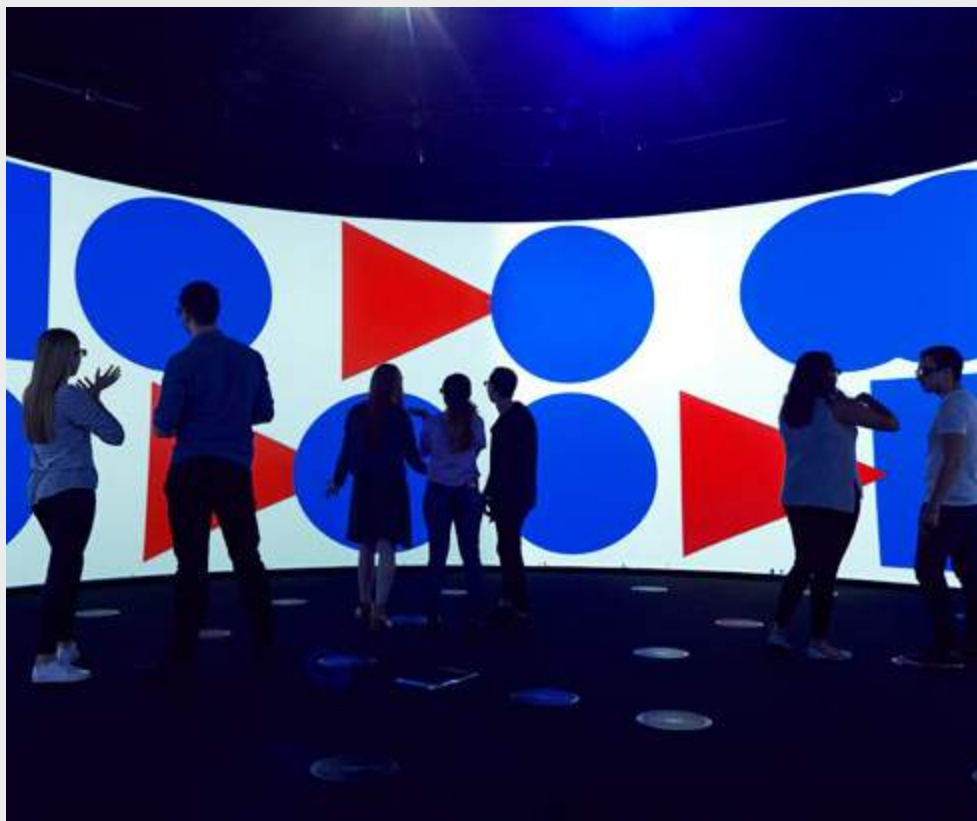
LABORATORIES

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 mechanical, information and communication technology laboratories, where you can gain hands-on practical experience.

TECH LAB

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

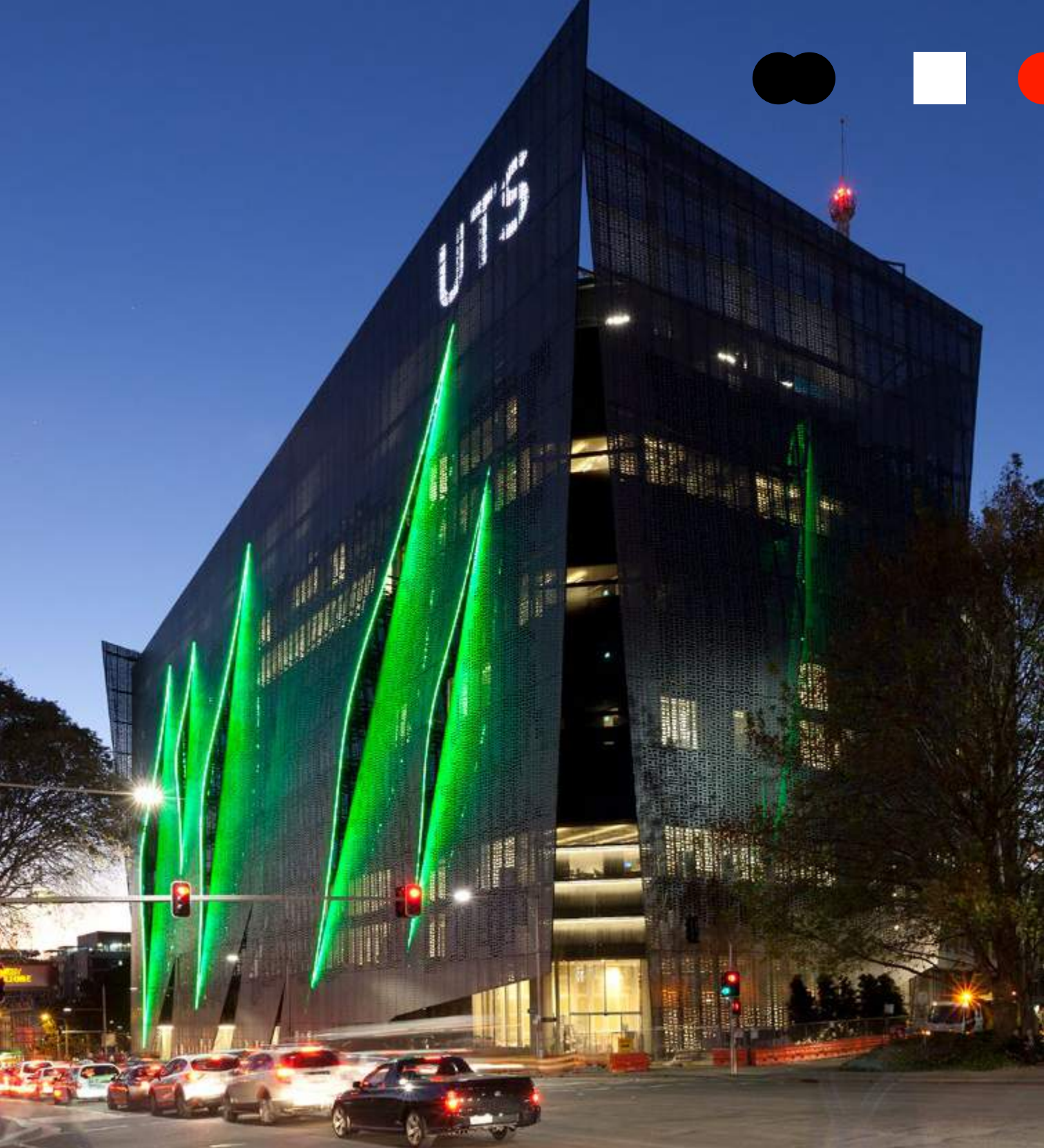
The building is a living, breathing laboratory, embedded with revolutionary technology and purposely - built to spark creativity and collaboration. Everything you need to take on tomorrow is right here, all under one roof.



LEARNING PRECINCT

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

Internships

The Diploma in Information Technology Professional Practice gives you practical, hands-on work experience.

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.

Students who enrol in the Bachelor of Science in IT complete the Diploma in Information Technology Professional Practice as part of their program. The internship is a structured program, consisting of one nine-month internship alongside your IT course.

Bachelor of IT Co-operative Scholarship students complete two six-month internships as part of their scholarship.

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 IT degree is a chance to make valuable connections and start building your industry network. Your internship work colleagues may become lasting contacts who would 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 that all important first job out of uni.



Internship FAQs

Q. WHAT IS THE DIPLOMA IN INFORMATION TECHNOLOGY PROFESSIONAL PRACTICE?

With the Diploma in Information Technology Professional Practice, you can undertake a minimum of nine months IT work experience in addition to your course.

The Diploma is available to students enrolled in the following courses:

- Bachelor of Science in Information Technology
- Bachelor of Science in Games Development
- Bachelor of Computing Science (Honours)
- Bachelor of Science in Information Technology combined degrees

Q. WHAT SUPPORT DO I HAVE SECURING AN INTERNSHIP?

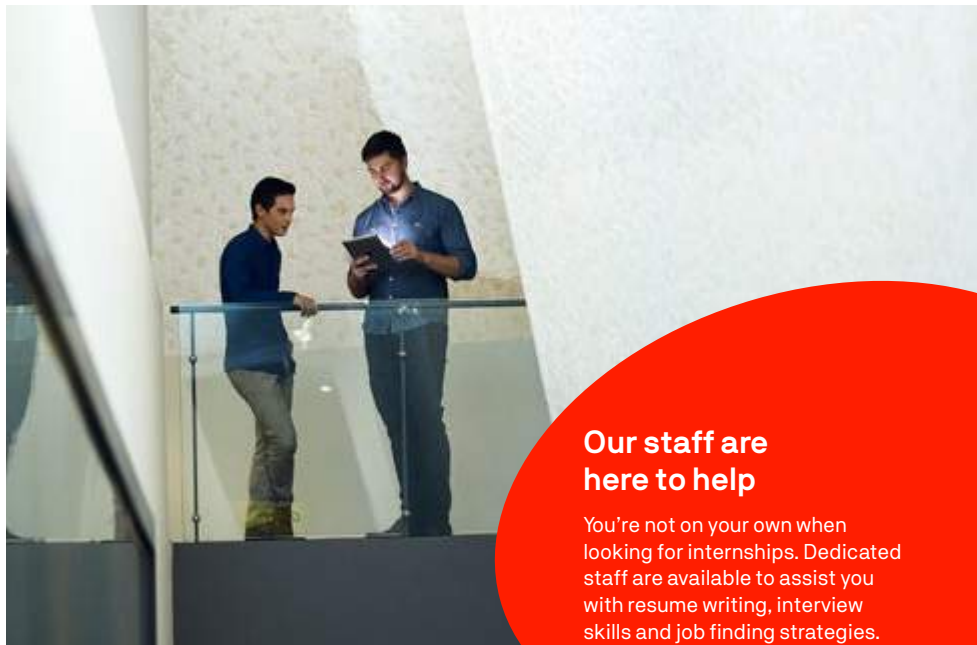
The careers team are available to assist you with your job search. We maintain links with more than 1000 organisations offering both scholarships and internships, the latter being advertised on our in-house jobs portal, CareerHub. We also offer opportunities to find mentors, meet contacts, and build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

Q. WHAT ARE THE BENEFITS OF AN INTERNSHIP?

An internship provides you with a unique opportunity to put uni learnings into practice. This means you get to test and refine your practical skills as well as build business acumen around your communication, teamwork and creative skills.

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.



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.

Clarissa Lim Bachelor of Information Technology Co-operative Scholar



“The experience you gain during your internship helps you develop a clearer understanding of what businesses are looking for. Hopefully, this gives you an edge when you enter the job market as you'll have a better idea of how to answer interview questions and how your skills match the needs of a business.”

Careers

Information Technology is your passport to success. Start your career journey at UTS.

PREPARE FOR THE FUTURE

Today's IT professionals are programming, networking, analysing and building. They are pioneering business and technical solutions for computer hardware, software, electronics, telecommunications, e-commerce and computer services.

THE FUTURE HAS NEVER LOOKED BRIGHTER FOR THE IT INDUSTRY

Technology continues to infiltrate every aspect of our lives, and there's no signs of it slowing down. Your IT degree will prepare you for a fast-paced digital future, giving you the knowledge and developing the skills you need for any industry or your own start-up. If you're interested in working in technology, the opportunities are endless. In fact, the IT sector is one of the biggest contributors to Australia's national economy with predicted growth until 2020.

WHAT DO YOU NEED TO WORK IN IT?

IT is not just about computers, especially if you're interested in one day creating your own start-up.

You've got to know how the business works. Here are a few tips on what you need to work in IT:

- good communication skills and to enjoy dealing with people
- creative thinking and problem solving skills
- to be motivated and results-driven
- to be a team player
- to be willing to learn new things and adapt to an ever-changing environment
- a mix of business and technical skills
- an understanding of how a business works - IT is not just about computers

151,200

new IT related jobs are predicted to be created between now and 2020

Department of Employment, 2016 Industry Employment Projections

Brendon Ward

Bachelor of Information Technology Co-operative Scholarship



"I completed my first internship with WiseTech Global, a global software development company where I worked on their flagship product CargoWise One. It's used by over half of the world's top 50 third-party logistics providers.

I rotated through three teams and developed my coding skills. It was a great experience."

Prepare for the future

Robotics, artificial intelligence and automation are all around us, revolutionising the way we live and work.

The demand for skilled IT professionals is growing exponentially to meet these emerging tech trends. Check out the top skills needed to meet this demand.

SOFTWARE DEVELOPER

Software developers are the creative minds behind computer programs and algorithms.

The programs must be secure and continuously tested to ensure code is released consistently, at a high quality and fast, ensuring clients and customers have a seamless and safe experience across applications.

Smart solutions, robots, machine learning, artificial intelligence, autonomous vehicles and advanced enterprise solutions are increasing the demand for custom software solutions.

Prepare with a Bachelor of IT Co-operative Scholarship or Bachelor of Science in IT, Diploma in IT Professional Practice or Bachelor of Computing Science (Honours)

CYBERSECURITY EXPERT

Advances in inter-connectivity, smart technology and online services are increasing the chances of cyber threats. In fact, according to the 2016 PwC Global Economic Crime Survey, cybercrime is ranked second most reported economic crime in the world.

Cyber security experts are tasked with simulating, tracking and targetting hackers.

Prepare with the Bachelor of Science in Information Technology and major in Networking and Cybersecurity.

DATA ANALYST

The Internet of Things is predicted to have 50 billion 'things' connected to the net by 2020. These 'things' include mobile phones, home appliances, healthcare devices, lights, wearable devices, engines and machinery.

As the demand for data grows, so will the demand for data analysts. An analyst has deep analytical skills with an ability to identify patterns and draw conclusions and insights to inform business decisions.

Prepare with the Bachelor of Science in Information Technology and major in Data Analytics.

VIRTUAL REALITY DESIGNER

The world of virtual and augmented reality is changing fast and becoming more accessible and wide-spread. Aside from the gaming industry, VR is also being used in the engineering, architecture, construction, education, medical and military industry for 3D design, simulations and training.

Prepare with a Bachelor of Science in Games Development.

ARTIFICIAL INTELLIGENCE

AI is enhancing human decision-making, by powering computer systems with human intelligence. This includes machine learning, where humans teach computer programs to learn by finding patterns in data. The more data available, the better the performance!

For instance, Google Assistant recognises your speech, provides search results and gives you recommendations on music and movies according to your search history.

Clinicians are also benefiting from AI by using complex pattern recognition to determine tailored treatments for patients, using billions of dimensions of DNA.

As technology advances and AI breakthroughs occur, we can expect further integration into our daily lives. Think automated transport, social robots, virtual personal assistants and advanced health detection.

Prepare with the Bachelor of Computing Science (Honours).



Bachelor of Science in Information Technology, Diploma in Information Technology Professional Practice

2019 Selection rank*: 80.10

Duration: 4 years full-time
6 years part-time^

UAC code: 603200

UTS course code: C10345

CRICOS Code: 084259M

^Part-time study option is not available to international students

Assumed knowledge: HSC (or international equivalent) Mathematics and any 2 units of English

Recommended Year 12 subjects: Mathematics Extension 1 and English Advanced

Professional recognition: Graduates are eligible to apply for professional-level membership of the Australian Computer Society

Take charge of your future in a world of disruptive technologies.

With the Bachelor of Science in Information Technology, Diploma in Information Technology Professional Practice you'll learn how to innovate today so that you can help shape tomorrow.

This program sees you combine theoretical knowledge and practical skills in both computing and business analysis to bridge the gap between business needs and innovation. Develop a strong grounding in the fundamentals of IT, while also allowing you to specialise with an IT major and pursue your interests with your remaining elective subjects. You can even choose electives from other faculties and/or undertake a study exchange session overseas.

Kory Porter

Bachelor of Science in Information Technology,
Diploma in IT Professional Practice



“I completed a diploma at TAFE before studying at UTS, but a university qualification makes a bigger statement, and UTS is known for technology.

I received credit points from my TAFE course and did a UTS Foundation Maths course to provide me with the skills I needed to get up to HSC standards.

There is a lot of flexibility and options around study plans, ways of learning and how and when you study if you are part-time or full-time.

I really like the ‘studios’ where you work on a real project, with a real client and with real teams, which is like a real work environment.”

*Selection ranks: published ranks indicate the lowest selection rank (ATAR plus any adjustment points applied through eligible admissions schemes) to which an offer was made to a domestic Current School Leaver (Year 12) in the Autumn 2019 intake (for December Round 2 and January Round 1).

MAJORS

- Business Information Systems Management
- Data Analytics
- Enterprise Systems Development
- Interaction Design
- Networking and Cybersecurity

WHY CHOOSE THIS COURSE?

As well as learning theory, you'll get the chance to practice it. You will gain:

- strong technical skills in IT
- skills in business analysis, problem solving, teamwork and communication
- exposure to real IT problems - employers look for graduates with industry experience
- the opportunity to undertake a minimum of nine months' work experience with the Diploma in Information Technology Professional Practice

CAREERS

- Business analyst
- Computer game designer/ animator
- Cloud specialist
- Data analyst
- Database designer/manager
- IT architect
- IT project manager
- Network administrator/manager
- Software developer
- Systems analyst
- Web developer
- Interaction designer

Combine your degree with:

Bachelor of Business, see page 20

Bachelor of Arts in International Studies, see page 22

Bachelor of Laws, see page 24

Bachelor of Creative Intelligence and Innovation, see page 26

Course structure

Core (8 subjects)	Major (8 subjects)	Electives (8 subjects)	Diploma in Information Technology Professional Practice
<ul style="list-style-type: none"> - Communication for IT Professionals - Introduction to Information Systems - Programming Fundamentals - Web Systems - Business Requirements Modelling - Database Fundamentals - Project Management and the Professional - Network Fundamentals 	Choose one major from the following: <ul style="list-style-type: none"> - Business Information Systems Management - Data Analytics - Enterprise Systems Development - Interaction Design - Networking and Cybersecurity 	Choose: <ul style="list-style-type: none"> - a second IT major OR <ul style="list-style-type: none"> - 2 sub-majors (IT or from another faculty) OR <ul style="list-style-type: none"> - 1 sub-major and 4 electives OR <ul style="list-style-type: none"> - 8 electives Students may also undertake a global exchange overseas.	A 9-12 month work placement and supporting subjects at UTS.

Majors

The major you choose will typically influence the career path you take after university. A major consists of eight subjects and allows you to specialise in your chosen area of IT.

Business Information Systems Management

These days, the private sector is increasingly looking for graduates who can use IT to provide solutions that add value to their business and improve competitiveness.

You'll focus on the business side of IT. You'll learn how to use appropriate design approaches to develop Information Communication Technologies for all types of business activities. Specialise in managing the integration of Information Communication Technologies into business and society, and take leadership roles in their implementation.

YOU WILL LEARN:

- how to run an IT business and systems
- how to design IT for all types of enterprises and business activities
- how to manage the integration of IT into a business

SUBJECTS INCLUDE:

Design systems, project management, contract/vendor management, organisational theory, accounting and finance.

Data Analytics

This major is all about technology services and integrates the mathematical and IT foundations for developing and applying business analytics systems. Data analytics is an emerging and rapidly expanding area, where mathematics and statistical methods interact with powerful information technologies to improve the flow of massive amounts of data for business.

YOU WILL LEARN:

- how to use data and mathematics to solve business problems
- about data mining; business intelligence systems; image processing; and applications of artificial intelligence

Enterprise Systems Development

This major introduces the practice of designing, creating and maintaining software. You'll get to apply technologies and practices from computer science, design, project management, and other fields to produce effective, reliable and engaging applications in an enterprise context.

YOU WILL LEARN:

- how to design, analyse, implement, test and deploy software systems
- how to build software systems in an enterprise context
- teamwork, project management and quality assurance

Networking and Cybersecurity

As the cyber landscape advances, so does the need for greater security measures that provide the framework protecting the very fabric of our new smart society.

This major equips computer network and systems engineers of the future with technical knowledge and a deep understanding of the principles of security concerned with technology services. You will develop key skills in secure network administration to protect personal and commercial data and protect organisations against imminent cyber threats.

YOU WILL LEARN:

- security fundamentals and cybersecurity, including subject options in digital forensics and mobile platform security
- the essentials of routing and switching in both wired and wireless networks
- server administration and cloud computing infrastructure
- building and securing the Internet of Things (IoT)
- options to learn advanced topics like software defined networks, advanced routing and multilayer switching
- hands-on networking skills using equipment from leading vendors



Interaction Design

Focus on user experience and the design of interactive systems. You'll develop the practical skills to translate design concepts into working systems, as well as the necessary creative and social skills to ensure that what they create has a positive impact on the world.

YOU WILL LEARN:

- human-centred approaches to interaction design
- how to create interactive systems that support rich user experiences
- how to examine user experiences and evaluate interface effectiveness

Computer Graphics and Animation

This sub-major provides you with the theoretical and practical knowledge required to understand and build modern computer graphics applications. You can choose to learn about 3D animations, rendering techniques and computer game design and programming, and you'll also have the option to complete a computer graphics project.

UTS graduates who've completed this sub-major have worked on Academy Award-winning films for special effects, such as *The Matrix*, *King Kong*, *Avatar* and *Happy Feet* (which also won the Academy Award for Best Animated Feature Film in 2007).

Sub-Majors

You can also take one of the five majors listed as a sub-major (which consists of four rather than the eight subjects required for a major). Please note that Computer Graphics and Animation is only offered as a sub-major.

Bachelor of Information Technology Co-operative Scholarship

Selection rank: This is a co-operative scholarship. Selection is based on a combination of ATAR and interview*
Additional selection criteria apply. See 'how to apply' on page 15.

*Your ATAR is just one component of your application, but an important one. We balance our selection criteria against one another, so if you excel in the application and industry interview it can compensate for a lower academic score. Historically, students with an ATAR of 85-99.95 have been offered a BIT Co-operative Scholarship.

Duration: 3 years (full-time)

UAC code: 603210

UTS course code: C10143

This program is not open to international students

Recommended Year 12 subjects: Mathematics Extension 1 and English Advanced

Professional recognition: Graduates are eligible to apply for professional-level membership of the Australian Computer Society

The Bachelor of IT is your first step towards IT leadership.

The BIT is a three-year fast-tracked Co-operative Scholarship aimed at high achieving students who are pursuing a career in technology leadership.

Students are paid \$49,500 (2018) over the three-year program and complete two internships with leading technology employers in first and third year.

Graduates from this course are highly sought after and report excellent starting salaries and exciting career prospects. In fact, many students even find work before they graduate.

Designed with help from our sponsors, this scholarship offers a strategic business focus, allowing you to develop strong technical skills combined with an in-depth understanding of business practice and technical skills.

CAREERS

- Associate Developer
- Business Analyst
- Information Systems Manager
- Project Manager
- Commercial Manager

Kasvi Luthra

Graduate, Bachelor of IT Co-operative Scholarship



"I completed my first internship with Vivant Digital, a small innovation agency, which I continued working part-time during my studies. My second internship will be with Westpac. The best application tip I can give is to let your personality come through in your responses. The academic and industry staff want to get to know who you are."

WHO SHOULD APPLY FOR THE BIT CO-OPERATIVE SCHOLARSHIP?

Students who are:

- excellent communicators with good interpersonal skills
- motivated, with the capacity to progress to a senior level of management
- all-round achievers who can demonstrate initiative by their involvement in activities like peer support, school council, debating, mooting, music, scouts, community work or sports
- interested in IT - you don't need to have completed an IT subject in the HSC

Successful students are selected based on a combination of direct application, industry interview performance, and selection rank*.

HOW TO APPLY

There are two steps you must take to complete your application.

1. Complete the BIT Application form at bit.uts.edu.au
2. List the BIT as a preference on your UAC application

Successful applicants will be selected to attend an industry interview.

If you are successful at interview you will receive a conditional offer.

Official offers will be released to students with the highest combined results from interview and Selection rank.

INDUSTRY SPONSORS

- Aleron
- Allianz
- American Express
- AMP
- ASIC
- ASX
- Campaign Monitor
- Coca-Cola Amatil
- Commonwealth Bank
- CSR
- CUSCAL
- Fujitsu
- IBM
- IBM iX
- InLoop
- Integrity Life Australia
- King & Wood Mallesons
- KPMG
- Macquarie Group
- Nielsen
- Nine Digital
- Nine Network Australia
- Origin Energy
- PWC
- Publicis Sapient
- Reserve Bank of Australia
- Servcorp
- TAL
- Venntifact
- Westpac
- Winning Group
- WiseTech Global
- Woolworths Group

Course structure[^]

Core (8 subjects)	BIT Core (8 subjects)	Electives (4 subjects)	Industry placements
<ul style="list-style-type: none"> - Communication for IT Professionals - Introduction to Information Systems - Programming Fundamentals - Web Systems - Business Requirements Modelling - Network Fundamentals - Database Fundamentals - Project Management and the Professional 	<ul style="list-style-type: none"> - Information System Development Methodologies - Collaborative Business Processes - Business Process and IT Strategy - Applications Programming - Introduction to Software Development - Advanced Software Development - Software Architecture <p>Plus 2 technical choice subjects</p>	<p>Electives can be IT subjects or chosen from other faculties. Students can also undertake an exchange overseas.</p>	<p>Year 1 - Session 2</p> <ul style="list-style-type: none"> - Industry Study 1 - Industry Experience 1 <p>Year 3 - Session 1</p> <ul style="list-style-type: none"> - Industry Study 2 - Industry Experience 2

[^]Revised structure due for implementation in 2019.

*Selection ranks: published ranks indicate the lowest selection rank (ATAR plus any adjustment points applied through eligible admissions schemes) to which an offer was made to a domestic Current School Leaver (Year 12) in the Autumn 2019 intake (for December Round 2 and January Round 1).

Bachelor of Computing Science (Honours)

2019 Selection rank*: 80.00

Duration: 4 years (full-time)

UAC code: 603230

UTS course code: CO9119

CRICOS code: 092896D

Assumed knowledge: HSC (or international equivalent) Mathematics Extension 1 and any 2 units of English

Recommended Year 12 subjects: English Advanced

Professional recognition: Graduates are eligible to apply for professional-level membership of the Australian Computer Society

Prof Michael Blumenstein
Associate Dean (Research Strategy & Management)
Faculty of Engineering & Information Technology



“The type of student that would enjoy undertaking a course like the Bachelor of Computing Science would be those that already have a strong background in maths and a love for mathematics and computing in general, such as in the areas of coding and programming.”

Drive innovation with real-world experience.

This premier degree has been developed in collaboration with the software industry to ensure students graduate with the skills required to pursue highly technical careers in artificial intelligence, cybersecurity, data science or quantum computing.

With an emphasis on next generation technologies, computer scientists solve deep problems in computing. They theorise, design, develop and apply computing and software for advanced programs.

You'll work in a studio environment, applying theoretical knowledge to real-world problems. In years three and four of the course, you'll also develop research skills through computing science studio subjects and specialist subjects, culminating in an honours project in your final year of study.

The Honours component is a one-year, research-based program devoted to a research project. It is the first step towards a career in research, and a unique opportunity for students to explore research opportunities at UTS.

CHOOSE A MAJOR:

- Artificial Intelligence and Data Analytics
- Business Information Systems Management
- Cybersecurity and Privacy
- Enterprise Systems Development
- Interaction Design
- Mathematical Analysis
- Networking and Cybersecurity
- Operations Research
- Statistics

*Selection ranks: published ranks indicate the lowest selection rank (ATAR plus any adjustment points applied through eligible admissions schemes) to which an offer was made to a domestic Current School Leaver (Year 12) in the Autumn 2019 intake (for December Round 2 and January Round 1).

WHY CHOOSE THIS COURSE?

As a Bachelor of Computing Science (Honours) student, you'll develop:

- the ability to theorise, design, develop and apply computing and software for advanced programs
- advanced cognitive, technical and communication skills required for a highly rewarding career
- opportunities to work in research. The combination of core computing science subjects, IT majors, electives and research subjects will prepare you to embark on a PhD.

PREPARE FOR THE FUTURE

- Intelligent robots
- Deep learning
- Artificial Intelligence
- Quantum computing
- IoT Security
- Digital Forensics

CAREERS

You will have diverse career opportunities locally and internationally across a range of industries, including science, health, engineering, finance, transport and telecommunications.

- Data scientist
- Artificial Intelligence expert
- Machine learning specialist
- Software designer
- Web development
- Interface designer
- Information systems management
- Network management
- Systems engineer
- Security operations
- Professional computing science researcher

Mustafa Barodawala

Bachelor of Computing Science (Honours)



“I wanted to study in an area that focuses on technology, but also mathematics. In computing science, maths is the foundation of how we analyse different programs, algorithms, and even different computational systems.

Having this unique way of approaching problems allows computer scientists to thoroughly investigate a problem, such as find some hidden-in-plain sight sort of pattern in a data analytics problem, or rule out potential algorithms immediately by predicting their run-time and space requirements.”

Course structure

Year 1		Year 2		Year 3		Year 4	
Session 1	Session 2	Session 3	Session 4	Session 5	Session 6	Session 7	Session 8
Mathematics (Core)		IT (Core)		IT (Major)	Honours Project Preparation	Honours Project	
				IT (Major)		Honours Project	IT (Major)
IT (Core)		IT (Major)		IT (Core)	Elective	IT (Core)	IT (Major)
		Comp. Sci. Studio	IT (Major)	Comp. Sci. Studio		Elective	

Bachelor of Science in Games Development

Facial recognition, virtual reality, augmented reality and open-source gaming are just the beginning.

2019 Selection rank*: 85.05

Duration: 3 years (full-time)
6 years part-time[^]

UAC code: 603225

UTS course code: C10229

CRICOS code: 057197M

[^]Part-time study option is not available to international students

Assumed knowledge: HSC (or international equivalent) Mathematics and any 2 units of English

Recommended Year 12 subjects: Mathematics Extension 1 and English Advanced

Professional recognition: Graduates are eligible to apply for professional-level membership of the Australian Computer Society

Evolving technology is changing the face of the interactive entertainment industry, giving unprecedented opportunities. Today's games are sophisticated computer programs that often connect thousands of players through virtual worlds and consist of detailed 3D graphics, realistic physics and complex artificial intelligence.

In this program, you'll develop a sound education in all aspects of information technology as well as the diverse skills necessary for a career in games development. This includes subjects in web systems, programming, networking, interactive media, database management, design and special effects.

WHY CHOOSE THIS COURSE?

At UTS you won't just learn the theory, but will also practice it. You will gain:

- enhanced work-ready expertise in games development and other IT fields
- creative freedom and practical problem-solving skills based on leading-edge IT theory
- communication skills in a variety of forms including written, verbal, online and technical literacies
- an awareness of the principles of ethics and corporate governance in a variety of settings
- an understanding of industry through showcase events and industry interaction

CAREERS

- Computer animation/graphics specialist
- Cyber security specialise
- Data analyst
- Games developer
- Interaction designer
- IT project manager
- Software developer
- Software engineer
- Systems analyst
- Web developer

Opportunities vary depending on major/sub-major chosen.

*Selection ranks: published ranks indicate the lowest selection rank (ATAR plus any adjustment points applied through eligible admissions schemes) to which an offer was made to a domestic Current School Leaver (Year 12) in the Autumn 2019 intake (for December Round 2 and January Round 1).

Course structure

Core (8 subjects)	Games Development (10 subjects)	Electives (8 subjects)
<ul style="list-style-type: none"> - Communication for IT Professionals - Introduction to Information Systems - Programming Fundamentals - Web Systems - Business Requirements Modelling - Database Fundamentals - Project Management and the Professional - Network Fundamentals 	<ul style="list-style-type: none"> - Introduction to Computer Game Design - Introduction to Computer Graphics - Game Design Studio 1 - Game Design Studio 2 - Applications Programming - Data Structures and Algorithms - Introduction to Computer Game Development - Advanced Interaction Design - Fundamentals of Interaction Design - Advanced Games Programming 	<p>Choose:</p> <ul style="list-style-type: none"> - 2 sub-majors (IT or from another faculty) <p>OR</p> <ul style="list-style-type: none"> - 1 sub-major and 4 electives <p>OR</p> <ul style="list-style-type: none"> - 8 electives

Natassja Sundara Bachelor of Science in Games Development



“I chose this degree because it allowed me to be creative in technology. It also combines IT subjects with games development, so you can branch into various fields when you graduate—not just games.

Right now I’m a part-time research assistant and games developer on a UTS project for the elderly. I also worked with UTS advanced technology development unit, Rapido. They were doing a VR project for a national tech conference in Sydney and asked me to gamify it.

There have been plenty of opportunities to engage with industry, including showcases where you can demonstrate your project and capabilities. It’s been very enjoyable—challenging but very rewarding.”

Combined degrees

Design the perfect double degree to suit your career goals.

Bachelor of Business Bachelor of Science in Information Technology

2019 Selection rank*: 83.10

Duration: 4 years (full-time)

UAC code: 603220

UTS course code: C10219

CRICOS code: 047835B

Assumed knowledge: HSC (or international equivalent)
Mathematics and any 2 units of English

Recommended Year 12 subjects: Mathematics Extension 1 and
English Advanced

Professional recognition: Graduates are eligible to apply for
professional-level membership of the Australian Computer Society

Technology transcends every company department.

Technology is one of the fastest growing industries, and essential to every successful business. This course provides a sound education in all aspects of computing and IT for students pursuing a career in the profession.

It adopts a practice-based approach, with the course content designed as a mix of theory and practice. The business component will provide you with the knowledge, competencies and values necessary for fulfilling an effective career in business.

WHY CHOOSE THIS COURSE?

Graduates with solid IT skills who also understand business operations are in strong demand in industry. Business knowledge is an increasingly important tool for IT professionals, enabling them to understand how IT fits into a successful business strategy.

CAREERS

- Electronic business operations management
- Information systems development/management
- Software development in the banking and finance sector
- Systems analyst
- Web developer

Graduates are also prepared for traditional business careers such as:

- accountant
- advertising consultant
- business analyst
- financial planner
- human resource manager
- management consultant
- marketing manager

*Selection ranks: published ranks indicate the lowest selection rank (ATAR plus any adjustment points applied through eligible admissions schemes) to which an offer was made to a domestic Current School Leaver (Year 12) in the Autumn 2019 intake (for December Round 2 and January Round 1).

Kevin Vilaythong

Bachelor of Business

Bachelor of Science in Information Technology



“In high school, I did a number of IT subjects like Information Process Technology and Software Design. I didn’t have any background in business or accounting, but I felt the degree would offer opportunities in both fields.

I have a graduate accountant position at Waterway Constructions, found through the UTS Careers Hub. It’s been a big learning curve on accounting as well as an IT project to automate processes in the company. It’s important to be transparent and constantly communicating with your supervisor or colleague. I focused on my interpersonal and collaboration skills with the team to successfully deliver projects.”

Jessica Ong

Bachelor of Business

Bachelor of Science in Information Technology



“I’m pursuing a data analytics major and we’re building a data model that can classify different types of buildings. I’m learning a lot from the course. I never did any IT subjects in high school, so when I came to uni I was worried, but the support network at UTS is very good from academics and peers.

My first internship was at Westpac. It was an eye opening experience—I never had any exposure to corporate life before. I learnt how to communicate in a team environment and develop my confidence. I really had to push myself out of my comfort zone.”

Course structure

IT core (8 subjects)	Business core (8 subjects)	IT major (8 subjects)	Business major (8 subjects)
<ul style="list-style-type: none"> – Communication for IT Professionals – Introduction to Information Systems – Programming Fundamentals – Web Systems – Business Requirements Modelling – Database Fundamentals – Project Management and the Professional – Network Fundamentals 	<ul style="list-style-type: none"> – Accounting for Business Decisions A – Managing People and Organisations – Marketing Foundations – Economics for Business – Fundamentals of Business Finance – Business Statistics – Integrating Business Perspectives – Accounting for Business Decisions B 	<p>Choose one IT major from the following:</p> <ul style="list-style-type: none"> – Business Information Systems Management – Data Analytics – Enterprise Systems Development – Interaction Design – Networking and Cybersecurity 	<p>Choose one Business major from the following:</p> <ul style="list-style-type: none"> – Accounting – Advertising and Marketing Communications – Economics – Finance – Human Resource Management – International Business – Management – Marketing

Combined degrees

Bachelor of Science in Information Technology, Bachelor of Arts in International Studies

2019 Selection rank*: 80.40

Duration: 5 years full-time

UAC code: 609230

UTS course code: C10239

CRICOS code: 0597266

Assumed knowledge: HSC (or international equivalent) Mathematics and any 4 units of English

Recommended Year 12 subjects: Mathematics Extension 1 and English Advanced

Professional recognition: Graduates are eligible to apply for professional-level membership of the Australian Computer Society

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

This program provides a sound education in all aspects of computing and IT. The international studies component offers the study of a language and culture other than English and the opportunity for students to study overseas for an academic year, pursuing a major research project in a field of their choice.

Take subjects in language and culture as well as a year studying overseas in one of the countries available as a major, allowing you to immerse yourself in another language and culture. The overseas year is normally undertaken as part of your fourth year (full-time). 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.

WHY CHOOSE THIS COURSE?

Why limit your horizons to Australia and other English-speaking countries?

You will gain:

- a thorough knowledge of IT and computing as well as skills in business analysis, problem solving, teamwork and communication
- exposure to foreign culture and language skills, opening up opportunities for you to work in a global workforce
- an understanding and appreciation of, and sensitivity towards, diverse cultural perspectives, practices, needs and values, in international and local contexts.

For career options available to Bachelor of Science in Information Technology graduates, see page 11.

Course structure

IT core (8 subjects)	IT major (8 subjects)	Electives (8 subjects)	Country major (6 subjects + in-country study)
<ul style="list-style-type: none"> - Communication for IT Professionals - Introduction to Information Systems - Programming Fundamentals - Web Systems - Business Requirements Modelling - Database Fundamentals - Project Management and the Professional - Network Fundamentals 	Choose one IT major from the following: <ul style="list-style-type: none"> - Business Information Systems Management - Data Analytics - Enterprise Systems Development - Interaction Design - Networking and Cybersecurity 	Choose: <ul style="list-style-type: none"> - A second IT major OR <ul style="list-style-type: none"> - 2 sub-majors (IT or from another faculty) OR <ul style="list-style-type: none"> - 1 sub-major and 1: electives OR <ul style="list-style-type: none"> - 8 electives 	<ul style="list-style-type: none"> - Argentina - Canada - Chile - China - Colombia - Costa Rica - France - Germany - Italy - Japan - Latino USA - Mexico - Spain - Switzerland

*Selection ranks: published ranks indicate the lowest selection rank (ATAR plus any adjustment points applied through eligible admissions schemes) to which an offer was made to a domestic Current School Leaver (Year 12) in the Autumn 2019 intake (for December Round 2 and January Round 1).



Bachelor of Science in Information Technology, Bachelor of Laws

2019 Selection rank*: 97.50

Duration: 5 years full-time

UAC code: 609020

UTS course code: C10245

CRICOS code: 0643826

Assumed knowledge: HSC (or international equivalent) Mathematics and any 2 units of English

Recommended Year 12 subjects: Mathematics Extension 1 and English Advanced

Professional recognition: Graduates are eligible to apply for professional-level membership of the Australian Computer Society. The course satisfies the academic requirements for admission to the Supreme Court of NSW as a lawyer. Students wishing to obtain full recognition for admission as a lawyer have the option of undertaking the UTS Practical Legal Training (PLT) program upon completion of their course.

Use your unique experience to apply legal practice to existing and emerging technology.

Lawyers are important business partners in today's fast-paced digital world. In this combined information technology and law degree, you'll gain a blend of technical knowledge and legal skills.

This program also provides you with a thorough grounding in Australian legal practice, including an understanding of the legal system, technology legislation, technology-specific criminal law, contract law and environmental law.

The IT component adopts a practice-based approach to IT education and its content is a mix of theory and real-world experience. You'll gain a sound education in all aspects of computing and IT and allows you to gain a specialisation with an IT major.

WHY CHOOSE THIS COURSE?

The primary goal of this combined degree is to prepare you to become a future lawyer with expert knowledge in IT, qualifying you to work as an IT professional in a legal environment. Because of the rapidly changing nature of IT, lawyers with IT skills are in demand.

You will gain:

- strong technical skills in IT
- skills in business analysis, problem solving, teamwork and communication
- a thorough grounding in Australian legal practice

CAREERS

Communication, teamwork, problem solving, analytical and creativity will be key skills, adding to your expertise in IT and Law. Roles are available throughout industry and include:

- intellectual property expert
- internet regulation specialist
- legal technology specialist
- online privacy manager
- solicitor – IP and technology

*Selection ranks: published ranks indicate the lowest selection rank (ATAR plus any adjustment points applied through eligible admissions schemes) to which an offer was made to a domestic Current School Leaver (Year 12) in the Autumn 2019 intake (for December Round 2 and January Round 1).

Combined degrees

Course structure

IT core (8 subjects)	Law core (15 subjects)	IT major (8 subjects)	Law electives (6 subjects)
<ul style="list-style-type: none"> - Communication for IT Professionals - Introduction to Information Systems - Programming Fundamentals - Web Systems - Business Requirements Modelling - Database Fundamentals - Project Management and the Professional - Network Fundamentals 	<ul style="list-style-type: none"> - Foundations of Law - Torts - Contracts - Ethics Law and Justice - Civil Practice - Commercial Law - Real Property - Remedies - Public International Law - Evidence - Equity and Trusts - Administrative Law - Corporate Law - Australian Constitutional Law - Criminal Law and Procedure 	<p>Choose one IT major from the following:</p> <ul style="list-style-type: none"> - Business Information Systems Management - Data Analytics - Enterprise Systems Development - Interaction Design - Networking and Cybersecurity 	<p>Students may choose from a wide range of Law electives and may also undertake an exchange session overseas. See the handbook for more detail. handbook.uts.edu.au/it</p>



Combined degrees

Bachelor of Science in Information Technology, Bachelor of Creative Intelligence and Innovation

2019 Selection rank*: 80.75

Duration: 5 years full-time

UAC code: 609565

UTS course code: C10327

CRICOS code: 0797578

Assumed knowledge: HSC (or international equivalent) Mathematics and any 2 units of English

Recommended Year 12 subjects: Mathematics Extension 1 and English Advanced

Professional recognition: Graduates are eligible to apply for professional-level membership of the Australian Computer Society

Build a brighter future with creative intelligence and innovation skills.

With a combined information technology 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.

Using multiple perspectives from diverse fields, it integrates a range of industry experiences, real-world projects and self-initiated proposals to provide you with the creative and entrepreneurial skills to address the problems, complex challenges and untapped opportunities tomorrow will bring.

WHY CHOOSE THIS COURSE?

This course focuses on high-level conceptual thinking and problem-solving practices that lead to the development of innovative, creative and entrepreneurial outcomes.

You will gain:

- strong technical skills in IT
- leading-edge capabilities that are highly valued in the globalised world, such as dealing with critical and creative thinking, invention, complexity, innovation, future-scenario building and entrepreneurship
- the ability to work on your own, across and between other disciplines

CAREERS

You will maximise your potential in your chosen profession by being a:

- creative thinker
- entrepreneur
- initiator of new ideas
- scenario planner
- global strategist
- open network designer
- sustainable futures innovator

This combined degree will help you develop the ability to identify and find solutions to some of the most complex issues that face many disciplines and society; these are highly sought after attributes in graduates.

*Selection ranks: published ranks indicate the lowest selection rank (ATAR plus any adjustment points applied through eligible admissions schemes) to which an offer was made to a domestic Current School Leaver (Year 12) in the Autumn 2019 intake (for December Round 2 and January Round 1).

Course structure

IT core (8 subjects)	IT major (8 subjects)	Electives (8 subjects)	Creative Intelligence and Innovation (12 subjects)
<ul style="list-style-type: none"> - Communication for IT Professionals - Introduction to Information Systems - Programming Fundamentals - Web Systems - Business Requirements Modelling - Database Fundamentals - Project Management and the Professional - Network Fundamentals 	<p>Choose one IT major from the following:</p> <ul style="list-style-type: none"> - Business Information Systems Management - Data Analytics - Enterprise Systems Development - Interaction Design - Networking and Cybersecurity 	<p>Choose:</p> <ul style="list-style-type: none"> - A second IT major <p>OR</p> <ul style="list-style-type: none"> - 2 sub-majors (IT or from another faculty) <p>OR</p> <ul style="list-style-type: none"> - 1 sub-major and 4 electives <p>OR</p> <ul style="list-style-type: none"> - 8 electives 	<ul style="list-style-type: none"> - Problems to Possibilities - Creative Practice and Methods - Past, Present, Future of Innovation - Creativity and Complexity - Leading Innovation - Initiatives and Entrepreneurship - Envisioning Futures - Professional Practice at the Cutting Edge - Innovation Internship A - Industry Innovation Project - Creative Intelligence Capstone <p>Choose one of the following:</p> <ul style="list-style-type: none"> - Innovation Internship B - Speculative Start-Up - New Knowledge-making Lab



Degree add-ons

Give yourself more options with add-ons to your degree.

+ Add the Diploma in Innovation

Smarter futures start here

Rather than building the skills for a specific career, the Diploma in Innovation is about preparing for the future of work. In fact, it responds directly to industry demand for graduates who can demonstrate inter- and transdisciplinary approaches in their professional practice. There's an emphasis on entrepreneurial thinking, too: by the time you graduate, you'll be ready to be an entrepreneur, serve entrepreneurial clients, or integrate entrepreneurial processes into your day-to-day work.

Our course content embraces the unlimited possibilities of the new world of work. Subjects include extensive 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's degree (excluding the BTi or BCI). What's more, all your diploma subjects will be offered as winter and summer school intensives, so even though you're adding an extra qualification, you'll still graduate on time.

+ Add the Diploma in Languages

Gain a global outlook

Bring the world to your doorstep with a Diploma in Languages. 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 Science in Information Technology

Direct entry open to international students only

UAC code: 603201

UTS course code: C10148

CRICOS code: 040941A

Combine your degree with:

Bachelor of Business, see page 20

Bachelor of Arts in International Studies, see page 22

Bachelor of Laws, see page 24

Bachelor of Creative Intelligence and Innovation, see page 26

Professional recognition: Graduates are eligible for professional-level membership of the Australian Computer Society

If you're an international student, you have the option of completing the Bachelor of Science in IT with or without the Diploma in Information Technology Professional Practice. You'll follow the course structure outlined on page 11 with a requirement to complete:

- 8 core IT subjects
- 1 IT major from a choice of 5 and,
- 8 electives.

You will gain:

- strong technical skills in IT
- skills in business analysis, problem solving, teamwork and communication
- exposure to real IT problems
- graduates with industry experience are highly sought after by employers



Women in Engineering and IT (WiEIT)

Inspire. Educate. Empower.

We envision a society where gender is irrelevant and unique individuals collaborate together to create innovative, sustainable solutions with real-world impact on people and planet.

As an IT student at UTS, you are a part of our diverse community of inspiring students, staff, professionals and allies who will empower and support you from your first day to graduation.

CONNECT WITH A PROFESSIONAL THROUGH LUCY MENTORING

From second year onwards, you can connect with an engineering or IT professional through the Lucy Mentoring Program.

Your industry mentor will help guide your study and career discovery. Not sure which career pathways are for you? Your mentor's experience and advice could be just what you need.

BUDDY UP

Just like your first day at school, we will pair you with a buddy who can help you navigate your first year of engineering/IT with us at UTS.

Get a tour of the campus, explore the local café scene and meet other students across the uni.



INSPIRE FUTURE GENERATIONS

Creating engineering and technology solutions needs diverse innovators 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 gain the skills and confidence through our STEM program.

DEDICATED HANG OUT SPACE

Find your people in the WiEIT cube on Level 5. Use this space to meet the community, host events, ideate projects or chill out

GET THE LATEST

Join the Women in Engineering and IT community on Facebook. We share jobs, scholarships, events and volunteering opportunities and encourage you to reach out to your peers. Join us for social events, networking with industry, and events both on and off-campus!

wieit.uts.edu.au

Megan Farleigh

Bachelor of Science in Information Technology



“The thing I love about technology is that it is always changing, updating, something new to learn. I hope one day be at the forefront of this technology. I want to be one of the people who creates, develops, and works with new and emerging tech.

I started with WiEIT as a volunteer for the Women in STEM Days. It was great to be able to connect with high school students and become a mentor for the day. These sessions have enhanced my confidence with public speaking whether that be to high school students or industry professionals.

In the Lucy Mentoring Program, I was paired with a CTO of an online fashion website, where I had fortnightly mentoring sessions with her. I shadowed many different roles in her business, from UX Designers, to developers, to managers.

The program gave me a wider and broader perception of IT, of the wide range of roles available. I saw how cross-functional teams work together to build and deliver a final product.

The Lucy Mentoring Program allowed me to develop myself professionally. I was placed in environments that I had never been in before - networking events, professional workplaces etc. I learned how to develop my ‘elevator pitch’. The exposure to industry and professionals prompted me to think about what I love about tech and what I wish to do in the future.”

University life

To ensure you feel confident and supported, we offer help with housing, money, making friends, health, cultural issues and career development.

Here are just a sample of clubs and programs at UTS. You can check out the full list of programs and events to help you broaden your social network at uts.edu.au/current-students/university-life

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



PROGSOC

ProgSoc is a society established by students for students who have an interest in programming. Its main aim is to encourage programming within UTS and to enable its members to develop non-commercial software and collaborate with organisations who share an interest in programming. progsoc.uts.edu.au

UTS TECHSOC

UTS TechSoc is the student society for Information Technology at UTS and is now one of the leading social societies at the university, attracting members from a variety of courses and disciplines. UTS TechSoc aims to provide all members with a variety of social and career-focused events. utstechsoc.com

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. The Cyber Security Society aims to encourage personal and professional development and offers guidance and support to anyone with the interest to learn!

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

UTS ROBOTICS SOCIETY

Discover everything robotics, from servos to software, and connect with likeminded students. Gain access to equipment, participate in robot building competitions, and receive support from industry.

utsroboticssociety.org

Jacob Vartanian

Bachelor of Engineering, Mechanical & Mechatronic

“At the Robotics Society we can give you an introduction to the field of robotics, provide you with the equipment and resources needed to design and build these robots and importantly introduce you to like-minded people. You have the chance to convert your imagination into a real thing which you can see and interact with!”

Discover entrepreneurship

Interested in entrepreneurship but not sure how to get involved?

UTS equips you with the tools to become entrepreneurs, whether it's with our free entrepreneurship courses, bootcamps, hackathons, internship opportunities or startup community, there's an entrepreneurship offering available for you!

entrepreneurship.uts.edu.au

ENTREPRENEURSHIP BOOTCAMPS

Gain insight into the world of entrepreneurship with our two-day intensive Ideate bootcamps! You'll be introduced to entrepreneurial methods and tools that you can use to solve problems, test ideas, create impact, and launch businesses. entrepreneurship.uts.edu.au

STARTUP INTERNSHIP OPPORTUNITIES

Build an internship experience that matters to you and apply to intern with a startup! It's an opportunity for startup communities to recruit our best and brightest, inject fresh ideas and perspectives into their startups, and inspire the next generation of entrepreneurs. It's a win/win. startupinternships.uts.edu.au

BEGIN YOUR STARTUP JOURNEY

Got an idea? Looking for some inspiration or support?

Join the UTS Startups community, a university-wide program to inspire and support student startups at UTS. It's not about prescribing a path or formula, but instead creating the environment where UTS startups are exposed to what they need to progress, both inside and outside the university. 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 IT 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 Science in IT includes a nine-month internship which can be taken with a local or international company. Students who intern overseas develop an international business network, add another language to their resumé, 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.





Applying to UTS

It's time! Join the innovation generation as a student at UTS.

Here's how:

1 Find a course

Choosing what to study can be tough. Start by checking out the course information pages of this guide (pages 10–29), as well as the UTS website.

uts.edu.au/find-right-ug-course

2 Check your admission requirements

Once you've chosen a course, check that you meet the admission requirements.

High school leavers:

If you're completing your HSC (or equivalent) in 2019, we'll assess your application based on your selection rank for entry into most UTS courses. Your selection rank is a combination of your ATAR/IB score, plus any adjustment points you receive (read more about adjustment points on page 22).

Mature age and non-current school leavers:

If you're not a high school leaver, you'll be assessed on criteria such as your ATAR, post-school qualifications, or relevant work experience, along with any additional selection criteria.

uts.edu.au/ug-optional-selection-criteria

Indigenous students:

If you're an Australian Aboriginal or Torres Strait Islander, the Jumbunna Institute for Indigenous Education and Research can help you get in to UTS through the Jumbunna Pathways Program (see page 38) or Unistart Program (see page 39).

uts.edu.au/apply-jumbunna-pathways

uts.edu.au/unistart

International students:

If you're not a citizen or permanent resident of Australia, or a citizen of New Zealand, you must apply as an international student directly through UTS International.

Tel: 1800 774 816
(free call within Australia)

Tel: +61 3 9627 4816
(for international calls)

international.uts.edu.au

If your prior education was not conducted in English, you must complete an English language test or show your results from a completed test in the last two years.

IELTS (Academic)	6.0 overall with a writing score of 6.0
TOEFL iBT	60–78 overall with a writing score of 21
AE5/AE6 (PASS)	AE5
PTE (Academic)	50–57
CAE	169–175

[^]For high school leavers only.

*Correct at the time of printing. Visit uac.edu.au

3 Check if you're eligible

Scholarships

When? Scholarship applications open as early as April 2019. See what's on offer and check your eligibility on our website.

uts.edu.au/scholarships

Admission Schemes

There's more than one way to get into uni. We offer a range of admission schemes that can help get you into the course you want. See page 38 for a list of schemes.

7 Review your options once

Are you eligible for subject points?^

Once your results are released, visit our Year 12 Subject Scheme table with your performance bands in hand to see if you're eligible for an adjustment of up to five points towards your selection rank. These subject points are in addition to any points you may receive from one of our other admission schemes.

uts.edu.au/ug-admissions-schemes

4 Visit UTS

Come and say hello at one of our events or faculty info sessions – it's a great way to get to know UTS. And don't miss UTS Open Day (Saturday 31 August 2019), the biggest day on campus, where you'll have the chance to explore your course and career options.

undergraduate.uts.edu.au/events

openday.uts.edu.au

8 Accept your offer

The majority of our offers are released during December Round 2 via UAC on 23 December 2019*. Check the UAC website for offer round dates.

Offers will be made to eligible IB students in January following the release of your results.

uac.edu.au

5 Apply through UAC

Applications for most UTS undergraduate courses must be lodged online through the Universities Admissions Centre (UAC). On-time applications close at the end of September 2019*. Be sure to have your UTS preferred course as your first preference.

Application information is available in the UAC Guide and on the UAC website. If you're a Year 12 student, you can obtain a free copy of the guide from your school. Some courses have additional selection criteria, so you may need to submit extra material to UTS in addition to your UAC application. Check out the UTS Handbook for more information about applying for your chosen course.

uac.edu.au

handbook.uts.edu.au

6 Complete the IT Questionnaire

If you fall short of the ATAR by 1-3 points, we will still consider your application if you complete the questionnaire and demonstrate a strong motivation to study IT at UTS.

Spend 20 minutes completing the IT Questionnaire, and give yourself the best chance to get into your preferred course at UTS.

it-questionnaire.uts.edu.au

The questionnaire is not applicable to the Bachelor of IT Co-operative Scholarship

Once you're in...

Congratulations! Keep the following dates in mind.

17 Feb–6 March 2020:
Orientation Autumn Session for new students.

Monday 9 March 2020:
Autumn Session begins.

Get in touch

DOMESTIC STUDENTS

Phone: 1300 ASK UTS (1300 275 887)

Email: feit@uts.edu.au

ask.uts.edu.au

INTERNATIONAL STUDENTS

Phone: 1800 774 816 (free call within Australia)

Phone: +61 3 9627 4816

Email: international@uts.edu.au

uts.edu.au/international

Admission schemes

Boost your chances of receiving an offer from UTS with one of our **admission schemes**. When we assess your application, we'll consider criteria beyond your ATAR, such as your academic performance in certain HSC subjects, disadvantageous circumstances you may have experienced, or your identification as Aboriginal or Torres Strait Islander.

Please note: you'll need to submit an application if you want to be considered for the admission schemes listed below. Only the Year 12 Subject Scheme and the equity-funded school concession points are automatically assessed.

Year 12 Subject Scheme

If you're a current high school student (both HSC and IB), you'll be automatically assessed for this scheme. The Year 12 Subject Scheme awards additional points (called adjustment points) towards your selection rank based on your performance in high school subjects that are relevant to your chosen course.

IT Questionnaire

The IT Questionnaire is about understanding your motivation to study IT at UTS. If we can see that you're genuinely dedicated to pursuing an IT degree, it'll increase your chances of receiving an offer, even if your selection rank is 1-3 points below the cutoff for your preferred course.

inpUTS-Educational Access Scheme

If you've experienced long-term educational disadvantage as a result of family, personal or financial circumstances, you can apply for inpUTS, our Educational Access Scheme (EAS). If you're eligible for inpUTS, you'll be considered for a place at UTS, even if your selection rank is up to 10 points below the cut-off for your preferred course.

Schools Recommendation Scheme

We're dedicated to supporting students who have the potential to succeed at university, even if they don't receive an offer based on their selection rank alone. To be eligible for our Schools Recommendation Scheme (SRS), you must demonstrate financial hardship or be automatically eligible for the geographic area code disadvantage (AG01) and achieve a minimum ATAR of 69 (or 80 for Law).

Elite Athletes and Performers Special Admissions Scheme

If you're an elite athlete or performer and your commitments outside school have impacted on your studies, you can apply for our Elite Athlete and Performers Scheme. This scheme can give you five additional adjustments points towards your selection rank.

Jumbunna Pathways Program

Available to Aboriginal and Torres Strait Islander students who aspire to study at university, and may not otherwise have the qualifications to apply. Your application will be assessed based on factors including previous life skills and experience, education and work experience. Applications are direct to Jumbunna.

Visit our website to see a full list of our admission schemes.

uts.edu.au/admission-schemes

Admission pathways

Admission pathways are alternative ways to get into your preferred course if you don't receive the ATAR you need. UTS pathways include TAFE courses, diplomas and other formal qualifications that can get you back on track.

Enrol in a related course

Start by choosing a different UTS course – ideally, pick one with a lower ATAR that's still similar to the course you want (hint: some combined degrees have a lower cut-off than a single degree).

Then, think about the following options:

- **Use your electives to get a great degree experience**

With electives, you can enrol in subjects that interest you from almost any UTS faculty – so you can still study what you're passionate about, no matter which degree you're in.

- **Re-apply after a year**

Once you've completed a year of full-time study at UTS or another institution, you can apply to your preferred course via UAC. We'll assess both your ATAR and the marks you earn in your first-year subjects. Make sure you study hard – it's a competitive process, so getting good results in first year is essential. You may also be eligible for credit recognition for certain subjects completed during the year.

- **UTS Insearch diplomas**

Fast-track your way into the second year of your chosen UTS degree* by completing a higher education diploma at UTS Insearch. As the leading pathway provider to UTS, UTS Insearch offers diplomas in six disciplines: business, communication, design and architecture, engineering, information technology and science. These diplomas are designed in collaboration with UTS, so you'll gain the same educational outcomes as a first-year UTS student.

insearch.edu.au

* Domestic student? If you successfully complete a UTS Insearch diploma with the required grade point average (GPA), you'll be guaranteed entry into a UTS degree. In most cases, you'll also receive up to 48 points of recognition of prior learning.

- **TAFE or private college diploma**

Studying a different university course is a great way to gain entry into your preferred degree – but so is completing an Australian Qualifications Framework Diploma at TAFE or a private college. If you achieve good marks, the diploma can add value to your application for the majority of UTS bachelor degrees. You may also be eligible for recognition of prior learning for certain subjects.

- **Retake your HSC at TAFE**

Have a do-over. By spending a year at TAFE, you can redo your HSC in a single year – which means you'll get a new ATAR at the end.

Jumbunna Unistart Program

Jumbunna Unistart is a unique twelve-month program offered to Aboriginal and Torres Strait Islander students. You attend small classes at Jumbunna that are designed to build your confidence and academic skills in writing and mathematics, along with select subjects from your chosen degree. When you have successfully completed the program, you will progress fully into your chosen degree and receive recognition of prior learning.

Visit our website to see a full list of our admission pathways.

uts.edu.au/admission-pathways

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 UTS Business Dean's Scholarship, valued at \$30,000).

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:

- Bachelor of Information Technology Co-operative Scholarship Program (See page 41)

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.

To find out more info on scholarships visit

 uts.edu.au/scholarships

IT SCHOLARSHIPS FOR COMMENCING STUDENTS (LOCAL)

Scholarship name	Awarded to	Benefit	Duration	Selection rank*	Other
BACHELOR OF INFORMATION TECHNOLOGY CO-OPERATIVE SCHOLARSHIP PROGRAM	Commencing students who have applied for the Bachelor of Information Technology. This is a fast-tracked undergraduate degree sponsored by industry. Recipients have the opportunity to participate in two six-month industry placements with two separate sponsoring organisations. Check UTS website for details.	\$49,500 over 3 years	3 years	90+	Merit and Industry Placements
ENGINEERING AND IT DEAN'S SCHOLARSHIP	High achieving commencing students with the top Selection rank* enrolled in a UTS Faculty of Engineering & Information Technology undergraduate degree.	\$10,000 per year	2 years	95+	Merit

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

- Challenger
- Ericsson
- John Hughes Memorial Scholarship
- NSW Government Data Analytics Centre
- Telstra
- Unilever
- And more!

*Selection ranks: published ranks indicate the lowest selection rank (ATAR plus any adjustment points applied through eligible admissions schemes) to which an offer was made to a domestic Current School Leaver (Year 12) in the Autumn 2019 intake (for December Round 2 and January Round 1).

^Pending approval for 2019.



Fees and financial assistance

Uni fees can be confusing – how much you pay depends on the uni you choose, the course you study and the subjects you enrol in. Here's a quick guide to student fees at UTS.

Domestic students

As a domestic student, you'll most likely be studying in a Commonwealth Supported Place. This means the Australian Government makes a contribution to the cost of your study, while you pay a student contribution.

- **Student contribution**
The Australian Government has classified each unit of study into various bands depending on the study area. Your student contribution is calculated based on the subjects you enrol in each session.
- **HECS-HELP**
Most domestic students pay their student contribution through the HECS-HELP scheme. This means the government lends you the money for your student contribution and pays it directly to the university. HECS-HELP is available to Australian citizens, students on humanitarian visas and holders of a New Zealand SCV that meets the long-term residency requirements (note that if you're a New Zealand citizen and do not meet eligibility requirements, or if you hold an ordinary permanent resident visa, you'll need to pay your fees upfront). You'll start repaying your HECS-HELP loan after graduation, once your income reaches the repayment threshold.

Don't want to incur a HECS-HELP debt? You can pay your student contribution upfront every session – just make sure you pay it by the due date.

For more information on HECS-HELP, visit the StudyAssist website.

studyassist.gov.au

– Student Services and Amenities Fee

The Student Services and Amenities Fee funds a wealth of activities and services for all UTS students, so it makes a huge difference to your uni experience. The fee pays for things like social and cultural clubs; study skills services; and ActivateUTS food, beverage and retail outlets.

uts.edu.au/student-services-and-amenities-fee

International students

This guide is not intended for international students. For information on fees for international students, visit the UTS International website.

international.uts.edu.au

UTS financial assistance

Uni life can be a bit of a juggle, so if you're struggling with your finances, the Financial Assistance Service can help. Our team assists with the practical and financial aspects of life at university, including information on the Centrelink Student Support benefits, government HECS and FEE-HELP tuition loans, help with planning your budget to survive uni on your income, providing support such as nil-interest short-term UTS student loans and help with completing PAYG annual income tax returns. They also support equity-based programs, grants and scholarships to help low-income domestic students in financial need. This funding can help you meet the costs of your classroom resources, like textbooks and laptops, or add-on costs that result from internships and workplace practical experience requirements.

uts.edu.au/financial-assistance

Government income support

If you're an Australian citizen or permanent resident, you may be eligible for a Centrelink benefit. Visit the Department of Human Services website for more information.

humanservices.gov.au





it.uts.edu.au/future

UTS Open Day

Saturday 31 August 2019

9am – 4pm

Register at openday.uts.edu.au

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♦ Times Higher Education Young University
Rankings 2018, QS Top 50 Under 50 2019

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Note, this guide is for local students. International students should refer to the International Course Guide or uts.edu.au/international