

UTS:
INFORMATION
TECHNOLOGY
UNDERGRADUATE COURSES GUIDE 2018

WELCOME TO UTS INFORMATION TECHNOLOGY

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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?

NO. 2
RANKED
COMPUTER SCIENCE IN AUSTRALIA
In the 2015 Academic Ranking of World Universities

NO. 1
UTS RANKED AUSTRALIA'S #1 YOUNG* UNI
*Times Higher Education 100 Under 50 rankings, 2015. QS World University Rankings Top 50 Under 50, 2015.

28TH
RANKED
MOST INTERNATIONAL UNIVERSITY IN THE WORLD
By Times Higher Education World University Rankings 2015



OUR DIFFERENCE

Climb the ladder faster by combining theory and practice in an internship connected to your degree.

FUTURE FOCUSED

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

A FOOT IN THE DOOR

Get the internship that will fuel your career with one of our 1,000 partner companies. Our team will help you secure it.

WHERE IDEAS FLOURISH

Time Magazine, Snapchat, Reddit, Facebook, Google, Dropbox, WordPress and Yahoo were all found in universities. Be where opportunities happen. 70% of Sydney's creative industries are in our neighbourhood and we offer dedicated services and programs to mentor students with ideas and ambitions.

THE WORLD'S AT YOUR FEET

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.ac/IT_honours to find out more and read about the projects you could be involved in.



Engineering and IT Building interior

WORLD-CLASS FACILITIES

The building is in itself a living, breathing laboratory.



Computer lab

ENGINEERING AND IT BUILDING

Classes in the Engineering and IT Building commenced in 2015; it's a state-of-the-art, 5-star green building featuring teaching spaces and laboratories of the future. Classrooms and collaborative theatres feature digital screens and moveable furniture to support group work, technology-enabled activities and practice-based learning. The building is embedded with wireless sensors to monitor temperature, air quality, noise, and dust particles.

UTS DATA ARENA

The 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 data portrayed in a 2D format.

LABORATORIES

UTS is a Cisco Networking Academy, so our internetworking labs are resourced with the latest equipment from Cisco Systems. Labs are regularly updated with the latest hardware and undergo a complete upgrade of operating systems and programs before most sessions. There are a mix of Windows and Linux labs, and IT students have 24/7 access to computer labs.

UTS IT provides Unix server access and an individual home directory that is backed up regularly. Students can access additional services such as Oracle, MySQL, PostgreSQL databases, Subversion repositories and internal websites.

FEIT 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 material and other resources such as software and hardware.

SOFTWARE DEVELOPMENT STUDIO

A rich environment for you to become professionally competent via an industry collaborative software development experience.

GRAPHICS LABORATORY

A laboratory of specially equipped computers for graphic intensive subjects, the computers have advanced graphic accelerator cards and Maya software.

CREATIVITY AND COGNITION STUDIOS

Includes a games studio, a sound studio and a video wall with an interaction space incorporating a range of sensor systems.

UTS LIBRARY

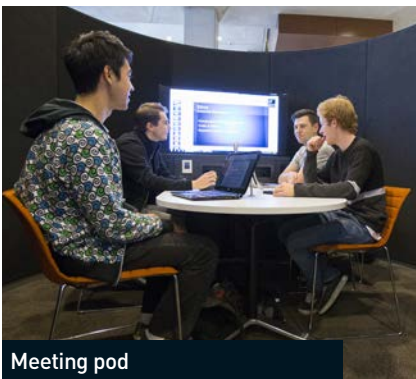
The library has expanded to include an underground storage system that uses robots to retrieve books, freeing library space for student collaboration and quiet study. This upgrade is part of the UTS City Campus Master Plan, a \$1 billion investment to redevelop UTS.

UTS HATCHERY

The Hatchery pre-incubator is a new, distinctive UTS entrepreneurship program designed to give you startup skills and to provide access to resources to help launch the entrepreneurs of the future. The program is 15–30 weeks, up to 4 hours per week. What you can gain from the Hatchery?

- > Resources to develop entrepreneurial ideas and skills
- > Opportunities to network with relevant industry professionals
- > Access to mentorship and other like-minded students

Graduating UTS students will also be given guidance to access resources for next stages of development from both UTS or our industry partners. You don't even have to have an existing startup idea to get involved. Learn more at hatchery.uts.edu.au



Meeting pod



Data Arena



TAMMY NGUYEN

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

Tammy Nguyen started her IT degree unsure of what she was getting herself into.

“I didn’t really know what IT consisted of, or I couldn’t picture myself being an IT professional. I knew what a lawyer was, I knew what an accountant was; I didn’t know what being an IT professional meant,” she says.

“But it turns out I really enjoy IT. You end up doing subjects for each of the majors – some are technical, some are not, and so it turns out I really enjoyed a little bit of both.”

In addition to internship placements she undertook with MLC and PwC Australia,

Tammy names the semester-long IT capstone subject as the most valuable aspect of her course.

“It’s basically a proposal that you’re writing to the client. Towards the end, you present it to industry, and then they provide instant feedback about what you did well and what you can improve on,” she says.

“It was like a simulation of the real world.”

Her UTS experience has confirmed that she’s in the right place, as far as future careers go.

“I want to pursue a career in the financial services industry, because I want to work in banking first, and then maybe pursue a career in consulting afterwards,” she says.

Read more student profiles
uts.edu.au/it-student-profiles

SET YOURSELF APART WITH AN INTERNSHIP

Feedback from employers consistently shows that students who gain work experience during their studies are highly sought after. To enhance your employability, UTS IT courses are offered in conjunction with the Diploma in Information Technology Professional Practice.

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

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

*Most students choose to work full-time in the third year of their course.

The Diploma is available to all students 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
- > Bachelor of Information Technology^^ students complete two 6-month industry placements as part of their 3-year degree.

*International students who also have a part-time job are not eligible for the Diploma in Information Technology Professional Practice.

^^Not available to international students.

Q: WHAT ARE THE BENEFITS OF AN INTERNSHIP?

A. UTS: IT graduates are work-ready and have an invaluable career head-start upon graduation.

- > Gain experience solving practical IT problems by applying the concepts you've learnt in the classroom to a real work environment – something that can't be learnt from a textbook.
- > Sharpen your communication and interpersonal skills, learn to work in a team, and function as a true professional. Gain those industry-ready skills employers are looking for.
- > Bring your acquired practical knowledge back into the classroom and see the teaching from a new perspective.

All jobs offered to our students are vetted and must meet certain criteria.

“The UTS: IT internship program is a tremendous success for both the students and NAB. Many of our interns go on to progress their career within NAB as a result of this program.”

SEAN SPARK
Senior Analyst, Programmer – NAB

CAREERS AND EMPLOYMENT IN IT



Internetworking lab



Creativity and Cognition Studio



Our PR2 robot making friends

Contribute to society through new developments in IT

Information Technology is all around us; through the integration of sensors, internet connectivity and cloud services, the Internet of Things has enabled us to be more efficient in undertaking everyday tasks such as 'smart' lighting, security surveillance and temperature control. Information technologists are constantly developing new solutions to better connect us in the modern world.

Today, IT professionals are programming, networking, analysing and building. They're pioneering business and technical solutions for computer hardware, software, electronics, the Internet, telecommunications, e-commerce and computer services. And they're often disrupting today and delivery the technology of tomorrow.

WHAT JOBS ARE IN DEMAND?

According to the Australian Government employment outlook:

- > Computer network professionals is expected to grow very strongly
- > Multimedia specialists and web developers is expected to grow strongly
- > Software and application programmers are forecast to contribute to employment growth by 18,000 by 2020.
- > ICT Managers are forecast to grow by 14,800 jobs by 2020.

For comprehensive career information go to joboutlook.gov.au

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 understand how a business works – IT is not just about computers



ANTHONY CHOI

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

For Bachelor of Science in IT student Anthony Choi, the year-long Diploma in Information Technology Professional Practice was the making of his UTS degree – and potentially of his future career.

Anthony interned with PVH Brands Australia, a retail company that represents well-known brands like Calvin Klein and Tommy Hilfiger. He gained firsthand experience of IT tasks like asset management, desktop support, server room maintenance, and network and system administration and design.

“I really enjoyed the culture and the workplace environment there. Besides gaining industry experience, I also made some friendships,” he says.

The experience also confirmed for Anthony that the UTS course content was reflective of the day-to-day realities of the IT industry.

“UTS has a reputation for keeping up with industry standards from a teaching point of view, and I saw this firsthand when I did my placement,” he says.

With the internship under his belt, Anthony is confident about his chances of success when it comes time to enter the IT workforce.

“Most students go out after they finish a degree and they’re just holding a piece of paper, and maybe a higher GPA than their peers, but they don’t really distinguish themselves in the IT world,” he says.

“It’s very important to have industry experience, as well as having a uni degree.”

Read more student profiles
uts.edu.au/it-student-profiles

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY, DIPLOMA IN INFORMATION TECHNOLOGY PROFESSIONAL PRACTICE

KEY INFORMATION

2017 ATAR: 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

English language requirements:

See page 31

Recommended year 12 subjects:

Mathematics Extension 1 and English Advanced

Combine your degree with:

Bachelor of Business, see page 19
 Bachelor of Arts in International Studies, see page 20

Bachelor of Laws, see page 20

Bachelor of Creative Intelligence and Innovation, see page 23

Bonus points: Available. See page 33

How to apply: See page 31

Professional recognition:

Graduates are eligible for professional-level membership to the Australian Computer Society

COURSE DESCRIPTION

This course allows you to tailor your IT degree to meet your interests. It combines theoretical knowledge and practical skills in both computing and business analysis. The course structure gives you a good 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.

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
- > Data analyst
- > Database designer/manager
- > IT architect
- > IT project manager
- > Network administrator/manager
- > Software developer
- > Systems analyst
- > Web developer
- > Interaction designer

COURSE STRUCTURE

8 core IT subjects	+	1 IT major (8 subjects)	+	8 electives	+	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 > Networking Essentials; or 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* > Internetworking and Applications 		Choose: <ul style="list-style-type: none"> > a second IT major or > 2 sub-majors (IT or from another faculty) or > 1 sub-major and 4 electives or > 8 electives Students may also undertake a global exchange overseas.		A 9–12 month work placement and supporting subjects at UTS.

* With the introduction of this major, UTS will be seeking accreditation for the revised course.

MAJORS

A major consists of eight subjects and allows you to specialise in your chosen area of IT.

Business Information Systems Management

This major focuses on the business side of IT, as the private sector looks for graduates who can use IT to provide solutions that add value to their business and improve their competitiveness. You'll learn how to use appropriate design approaches to develop Information Communication Technologies for all types of business activities. This major allows students to 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 that form this major include: design systems, project management, contract/vendor management, organisational theory, accounting and finance.

Data Analytics

This major integrates the mathematical and IT foundations for developing and applying business analytics systems, and is concerned with technology services. 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 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

Internetworking and Applications

This major provides the necessary knowledge and skills in network design and application development, and is concerned with technology services.

You will learn:

- > network architecture, internetworking protocols, and the infrastructure of cloud computing
- > development of networked applications and web services
- > network design and management
- > network and system security
- > about knowledge and skills aligned with industry certifications (e.g. Cisco CCNA)

Interaction Design

This major focuses 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

SUB-MAJORS

You can also take one of the five majors listed as a sub-major (which will consist 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.

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 films that have won Academy Awards for special effects, for example: *The Matrix*, *King Kong*, *Avatar*, and *Happy Feet* (which also won the Academy Award for Best Animated Feature Film in 2007).

CO-OPERATIVE SCHOLARSHIP PROGRAM BACHELOR OF INFORMATION TECHNOLOGY

THIS PROGRAM IS NOT OPEN TO INTERNATIONAL STUDENTS

KEY INFORMATION

2017 ATAR:	It is expected that students will achieve an ATAR of around 90
Duration:	3 years (full-time)
UAC code:	603210
UTS course code:	C10143

Assumed knowledge:

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

Recommended year 12 subjects:

Mathematics Extension 1 and
English Advanced

Bonus points: Not applicable

How to apply: See course information on this page for details.

Professional recognition:

Graduates are eligible for professional-level membership to the Australian Computer Society

COURSE DESCRIPTION

This course is a three-year fast-tracked Co-operative Scholarship sponsored by industry, valued at approximately \$49,500.

Designed with help from our sponsors, the scholarship offers a business focus, allowing you to develop an understanding of both business practice and technical skills to prepare you for an IT management role.

WHY CHOOSE THIS COURSE?

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

You will undertake two 6-month industry placements with different sponsor organisations in your first and third years of study. Industry placements are integrated learning experiences that include formal coursework, delivered by industry professionals.

CAREERS

- > Business analyst
- > Information systems manager
- > Project manager
- > Commercial manager
- > Social media/digital marketing roles

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 sport
 - > interested in IT – you don't need to have completed an IT subject in the HSC
- Successful candidates will be selected based on a combination of interview performance and ATAR.

Acceptance to this course is based on your personal attributes, not just your HSC results.

HOW TO APPLY

You must:

- > complete the online BIT application questionnaire at uts.ac/BIT-apply
- > submit the application to UTS and
- > apply through **UAC**

More information on applications dates and interviews: uts.edu.au/future-students/scholarships
Email: bitscholarships@uts.edu.au

INDUSTRY SPONSORS

ACS Foundation
Allianz
American Express
Appliances Online
ASIC
ASX
Campaign Monitor
Coca Cola Amatil
Commonwealth Bank of Australia
CSR
CUSCAL
David Jones
Deloitte
HP
IBM
IBM Global Business Services
KPMG
Lend Lease
Macquarie Group
Nine Digital
Nine Network
PWC
RazorFish
Reserve Bank of Australia
Servcorp
TAL
Vivant Digital
Westpac
WiseTech Global
Woolworths

COURSE STRUCTURE

8 core IT subjects	4 electives	Industry placements
<ul style="list-style-type: none"> > Communication for IT Professionals > Introduction to Information Systems > Programming Fundamentals > Web Systems > Business Requirements Modelling > Networking Essentials or Network Fundamentals > Database Fundamentals > Project Management and the Professional 	<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
<p>8 core BIT subjects</p> <ul style="list-style-type: none"> > Information System Development Methodologies > Collaborative Business Processes > Business Process and IT Strategy > Applications Programming > Software Engineering Practice > Systems Development Project <p>Plus 2 technical choice subjects</p>		



JAYASH MALHOTRA

Bachelor of Information Technology (BIT) Co-operative Scholarship

For BIT Scholarship student Jayash Malhotra, an internship with Hewlett Packard Enterprise has been the most eye-opening part of his degree to date.

During the six-month placement, a compulsory component of the BIT degree, Jayash worked as a business analyst and developer. He was tasked with improving internal business processes by writing programs to automate the work.

“It was the best of both worlds, so I had that client-facing kind of role, but at the same time I was doing the programming as well,” he says.

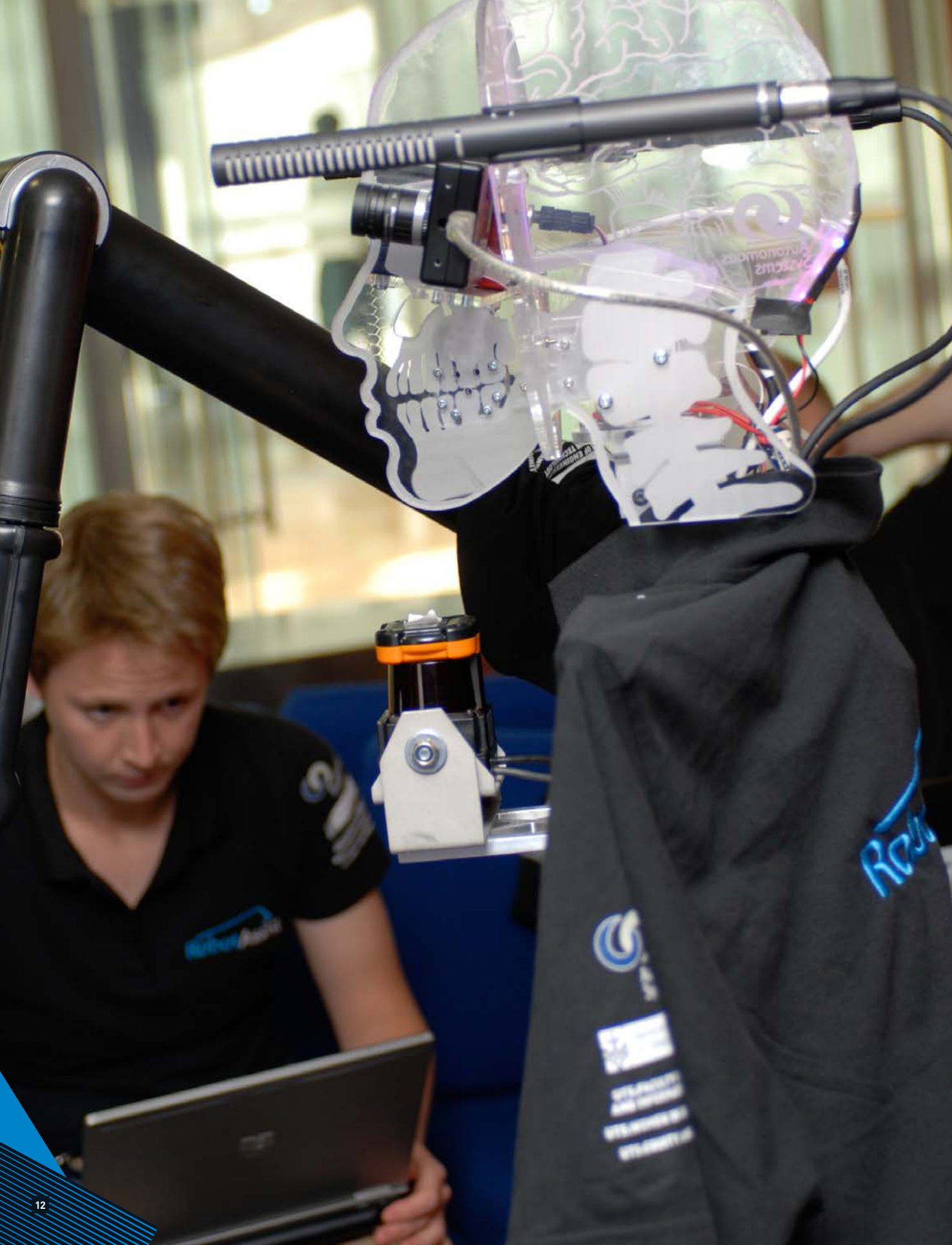
As well as building his technical and professional skills, the internship has also

shaped Jayash’s future career aspirations – though not in the way he might have expected.

“I went to the internship and I kind of experienced the analytical side of things and the development and the little bit of consulting I did, I realised that yeah, analysis isn’t really for me, but development and consulting looks kind of fun,” he says.

“So it’s really helped me to see what I don’t want to do, as well as what I do want to do.”

Read more student profiles
uts.edu.au/it-student-profiles



CO-OPERATIVE SCHOLARSHIP PROGRAM BACHELOR OF INFORMATION TECHNOLOGY (CONT)



SHIYI (CLARA) XU

Bachelor of Information Technology (BIT) Co-operative Scholarship

Shiyi Xu isn't one to sit back and let life pass her by. As a BIT Co-operative Scholarship recipient, she's already been identified as a high-calibre student with excellent potential, and she's studying an accelerated IT degree that challenges her on multiple levels.

"The Co-operative program involves two six-month internships, as well as a three-year degree. You get the opportunity to have real world experience in the industry," she says.

By any measure, she's got a lot on her plate. But after completing internships with ING Direct Australia and WiseTech Global, Shiyi took things a step further, picking up an extra professional placement with Deloitte over her summer break.

The Deloitte placement gave her the opportunity to see how her IT expertise could be applied in three starkly different sectors: technology, financial services and consulting.

"I took a summer internship, which was not related to my degree. It was just my personal preference to take on more," she says.

"At WiseTech Global, I did a software development job. ING Direct was a rotation for me for six months – it involved UI development, and business analyst-type activities, as well as a lot of agile jobs, such as database management and development. Deloitte was mainly consulting," she says.

With a job offer from Deloitte now in hand, Shiyi wants other young people, particularly women, to know that an IT degree can open the door to a range of careers – and that being tech-savvy isn't a pre-requisite for success.


"Don't let technology scare you," she says.

"I definitely didn't have a technical background, but what made me really want to do this degree was that it's very dynamic – you get a lot of career options out of it. It doesn't necessarily have to be coding, like what the typical programmer does. And we don't always fix computers!"

Read more student profiles
uts.edu.au/it-student-profiles

"Bachelor of Information Technology students bring passion, enthusiasm, intelligence and hard work during their placements and have been able to contribute to the delivery of real customer solutions."

RICHARD WHITE
UTS Alumni
CEO & Founder, WiseTech Global



"The types of students that would enjoy undertaking a course like the Bachelor of Computing Science would be those that have a tremendous fundamental already within maths and a love for mathematics and computing in general, such as in the areas of coding and programming"

MICHAEL BLUMENSTEIN
Head of School
School of Software



BACHELOR OF COMPUTING SCIENCE (HONOURS)

KEY INFORMATION

2017 ATAR:	80.10
Duration:	4 years full-time 8 years part-time
UAC code:	603230
UTS course code:	C09119v1
CRICOS code:	092896D

This course will be offered to international students from Autumn 2018.

Assumed knowledge:

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

English language requirements:

See page 31

Recommended year 12 subjects:

Mathematics Extension 1 and English Advanced

Bonus points: Available. See page 33

How to apply: See page 31

Professional recognition:

The Faculty of Engineering and IT will seek professional accreditation from the Australian Computer Society for Bachelor of Computing Science (Honours).

COURSE DESCRIPTION

This premier degree has been developed in collaboration with the software industry to ensure students graduate with the skills required to pursue a career in industry or research. The course is aimed at students who have a strong fundamental in mathematics and a passion for computing in general, including the areas of coding and programming.

Computing science is at the forefront of innovation, transforming and revolutionising the way we live. The Bachelor of Computing Science (Honours) provides a comprehensive introduction to both information technology and computing science. It incorporates foundation mathematics with core computing and computing science-specific subjects, including computer programming, software design, networking, data science, machine learning and quantum computing.

As a student of this course, you will 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.

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.

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



Location:

Aaram's Stats:

Level:	1
Experience:	200
Next Level:	1000
Drumsticks:	2
Accuracy:	0
Power:	1
Energy:	10

Aaram's Drunkie:

Snare:	None
Tom 1:	None
Tom 2:	None
Floor Tom:	None
Bassdrum:	None
Hi Hat:	None
Ride Cymbal:	None
Crash Cymbal:	None

Practice:

Practice.

Missions:

Meet your teacher.
Your first class.
Help Aaram:
Get a Bassdrum and learn how to read tablatures.
Find yourself a snaredrum and show you know how to use it.

Music:

Comfortably Numb (Pink Floyd)



HARRY REX

Bachelor of Science in Games Development

"Games have always interested me. I loved to play them as a kid, and it was the only thing I could picture myself making a career out of," says Harry Rex, a final-year student in the Bachelor of Science in Games Development.

The UTS Games Development course is one of only a handful of courses of its kind in Australia. Its niche content – graphics, animation, coding, programming – is underpinned by industry-standard equipment and studio-based subjects that mimic the real-world environment of the games industry.

"A lot of what they teach us in terms of content and how we approach things is very good, as are the game design

methodologies and the importance of having designers, developers, artists and animators as part of your team," Harry says.

An exchange to Denmark, where he spent time undertaking games research, helped solidify his interests – "It showed me I want to be more of a designer than a researcher" – and led to the launch of his own games company, Golden Edge Creative.

On the cusp of graduation, and with a career path mapped out, Harry still has other options in the unlikely event he ever changes his mind – graduates can also find work in other creative fields, and in the IT sector.

Read more student profiles
uts.edu.au/it-student-profiles

BACHELOR OF SCIENCE IN GAMES DEVELOPMENT

KEY INFORMATION

2017 ATAR:	90.70
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

English language requirements:

See page 31

Recommended year 12 subjects:

Mathematics Extension 1 and English Advanced

Bonus points: Available. See page 33

How to apply: See page 31

Professional recognition:

Graduates are eligible for professional
-level membership to the Australian
Computer Society

COURSE DESCRIPTION

Today's games are large sophisticated computer programs that often connect thousands of players through virtual worlds and consist of detailed 3D graphics, realistic physics and complex artificial intelligence. This course will give you a sound education in all aspects of information technology, and enable you to develop the diverse skills necessary for a career in games development.

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
- > 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

CAREERS

- > Games developer
- > Computer animation/graphics specialist
- > Software developer

COURSE STRUCTURE

8 core IT subjects	+ 8 core Games Development subjects	+ 8 electives
<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 > Networking Essentials or Network Fundamentals 	<ul style="list-style-type: none"> > Interactive Multimedia > Introduction to Computer Game Design > Introduction to Computer Graphics > Game Design Studio 1 > Game Design Studio 2 > Applications Programming <p>Choose two of the following:</p> <ul style="list-style-type: none"> > Application Development in the iOS Environment > 3D Computer Animation > Computer Graphics Rendering Techniques > Computer Graphics Project > Data Structures and Algorithms > Introduction to Computer Game Programming > Advanced Interaction Design > Mobile Applications Development > Programming for Special Effects 	<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



DALY SPHABMIXAY

Bachelor of Business, Bachelor of Science in Information Technology

For Daly Sphabmixay, volunteering her time has been the making of her UTS experience. The double degree student, who says she felt 'stuck' when it came to deciding what to study at uni, now spends her spare time helping other students think about their options.

At UTS, she's been involved with Discovery Day, Hands-on Day and the Peer Network, among others. She's also a junior events intern with the ACS Foundation's BiG Day In, a national ICT careers event for students interested in a career in technology.

"A lot of young people don't really see technology as an avenue, because there's always other options, like pharmacy, medicine, accounting or business," she says.

"Pushing IT, especially in high school is a good way to get students into technology degrees and careers."

In terms of her own degree, Daly names the semester-long IT capstone subject as the most valuable aspect of her course.

"We developed a mock system for the Federal Election, looking at how we could implement an IT system that met all the technology and all the business needs," she says.

"We developed a proposal for the tutors, and presented in front of them – it was definitely nerve-wracking, but really valuable."

Read more student profiles
uts.edu.au/it-student-profiles

BACHELOR OF BUSINESS, BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

KEY INFORMATION

2017 ATAR: 85.55
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

English language requirements:

See page 31

Recommended year 12 subjects:

Mathematics Extension 1 and English
 Advanced

Bonus points: Available. See page 33

How to apply: See page 31

Professional recognition:

Graduates are eligible for professional-level membership to the Australian Computer Society

COURSE DESCRIPTION

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

- > Information systems development/management
- > Software development in the banking and finance sector
- > Electronic business operations management

Graduates are also prepared for traditional business careers such as:

- > Accountant
- > Advertising consultant
- > Business analyst
- > Financial planner
- > Human resource manager
- > Management consultant
- > Marketing manager

COURSE STRUCTURE

8 core IT subjects	+ 8 core Business subjects	+ 1 IT major (8 subjects)	+ 1 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 > Networking Essentials or 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 	Choose one IT major from the following: <ul style="list-style-type: none"> > Business Information Systems Management > Enterprise Systems Development > Internetworking and Applications > Data Analytics > Interaction Design* 	Choose one Business major from the following: <ul style="list-style-type: none"> > Accounting > Economics > Finance > Human Resource Management > International Business > Management > Marketing > Marketing Communication

* With the introduction of this major, UTS will be seeking accreditation for the revised course.

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY, BACHELOR OF ARTS IN INTERNATIONAL STUDIES

KEY INFORMATION

2017 ATAR: 87.30
Duration: 5 years (full-time)
UAC code: 609230
UTS course code: C10239
CRICOS code: 059726G

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

English language requirements:
 See page 31

Recommended year 12 subjects:
 Mathematics Extension 1 and English Advanced

Bonus points: Available. See page 33

How to apply: See page 31

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

COURSE DESCRIPTION

This course provides a sound education in all aspects of computing and IT. The international studies component offers an in-depth understanding of another culture through academic and experiential learning, enhancing your professional training and career options.

It involves undertaking 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. This in-country study 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 overseas

CAREERS

The international studies component of this degree will prepare you to work in a diverse range of IT careers in multinational companies or overseas.

For career options available to Bachelor of Science in Information Technology graduates, see page 8.

COURSE STRUCTURE

8 core IT subjects	+	1 IT major (8 subjects)	+	8 electives	+	1 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 > Networking Essentials or 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* > Internetworking and Applications 		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 		<ul style="list-style-type: none"> > Argentina > Canada > Chile > China > Colombia > Costa Rica > France > Germany > Italy > Japan > Latino USA > Mexico > Spain > Switzerland

* With the introduction of this major, UTS will be seeking accreditation for the revised course.

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY, BACHELOR OF LAWS

KEY INFORMATION

2017 ATAR:	97.00
Duration:	5 years (full-time)
UAC code:	609020
UTS course code:	C10245
CRICOS code:	064382G

Assumed knowledge:

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

English language requirements:

See page 31

Recommended year 12 subjects:

Mathematics Extension 1 and English
Advanced

Bonus points: Not applicable

How to apply: See page 31

Professional recognition:

Graduates are eligible for professional-level membership to 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.

COURSE DESCRIPTION

This course provides a thorough grounding in Australian legal practice. The IT component offers a sound education in all aspects of computing and IT and allows you to gain a specialisation with an IT major. The course adopts a practice-based approach to IT education and its content is a mix of theory and real-world experience.

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

Options include both roles in IT or Law, such as an In-house counsel, legal consultant or patent lawyer in:

- > E-commerce
- > Intellectual property
- > Internet regulation
- > Online privacy
- > Technology law

COURSE STRUCTURE

8 core IT subjects	+	15 core Law subjects	+	1 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 > Networking Essentials or 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 		Choose one IT major from the following: <ul style="list-style-type: none"> > Business Information Systems Management > Data Analytics > Enterprise Systems Development > Interaction Design* > Internetworking and Applications 		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

* With the introduction of this major, UTS will be seeking accreditation for the revised course.



BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY, BACHELOR OF CREATIVE INTELLIGENCE AND INNOVATION

KEY INFORMATION

2017 ATAR: 89.10
Duration: 5 years (full-time)
UAC code: 609565
UTS course code: C10327
CRICOS code: 079757B

Assumed knowledge:
 HSC (or international equivalent)
 Mathematics and any 2 units of English
English language requirements:
 See page 31

Recommended year 12 subjects:
 Mathematics Extension 1 and English Advanced

Bonus points: Not applicable

How to apply: See page 31

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

COURSE DESCRIPTION

This course takes a transdisciplinary approach to the study of IT. Utilising multiple perspectives from diverse fields, it integrates a range of industry experiences, real-world projects and self-initiated proposals to equip you 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.

COURSE STRUCTURE

8 core IT subjects	+ 1 IT major (8 subjects)	+ 8 electives	+ 12 core Creative Intelligence and Innovation 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 > Networking Essentials or 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* > Internetworking and Applications 	Choose: <ul style="list-style-type: none"> > A second IT major or > 2 sub-majors (IT or from another faculty) or > 1 sub-major and 4 electives or > 8 electives 	<ul style="list-style-type: none"> > Problems to Possibilities > Creative Practices 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 B > Innovation Capstone: Research and Development > Innovation Capstone: Realisation and Transformation Choose one of the following: <ul style="list-style-type: none"> > Innovation Internship A > Speculative Start-Up

* With the introduction of this major, UTS will be seeking accreditation for the revised course.



ADD TO YOUR DEGREE

FUTURE PROOF YOUR DEGREE: ADD ON THE **DIPLOMA IN INNOVATION**

Want to explore more about innovation and entrepreneurship? Want to explore your creative side? Want to compliment your studies by developing your creative intelligence and innovation skills?

Taking a transdisciplinary approach the new Diploma in Innovation engages students with open, complex and networked problems, and in doing so develops students' capacity for complex systems thinking, creating value in problem solving and inquiry, imaginative and ethical citizenship and entrepreneurial/intrapreneurial skills. The Diploma can only be undertaken in conjunction with an undergraduate bachelor's degree (excluding the BTi or BCII); it consists of intensive courses in winter and summer schools that allow students to experience transdisciplinary innovation practices without extending their course duration.

DIPLOMA IN LANGUAGES

Add the Diploma in Languages and study alongside your degree for the opportunity to learn about another language and its corresponding culture and society.

This Diploma adds an international perspective to your professional UTS degree and can lead to globalised work opportunities. Any domestic student enrolled in UTS undergraduate coursework degree is eligible to apply to UTS directly.

ADDITIONAL COURSES FOR INTERNATIONAL STUDENTS

KEY INFORMATION

Direct entry open to international students only

Duration: 3 years
(full-time only)

UAC code: 603201

UTS course code: C10148

CRICOS code: 040941A

English language requirements:
See page 31

Combine your degree with:

Bachelor of Business, see page 19

Bachelor of Arts in International

Studies, see page 20 Bachelor of Laws,

see page 21 Bachelor of Creative

Intelligence and Innovation, see page 23

How to apply: See page 31

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

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

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 8 with a requirement to complete 8 core IT subjects; 1 IT major from a choice of 4; 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

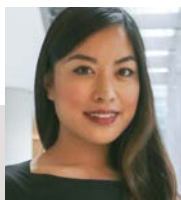


Local Area Network Lab



Internetworking Lab

WOMEN IN ENGINEERING & IT (WiEIT)



SELINE HARDY

Graduate, Bachelor of Business, Bachelor of Science in Information Technology

A stumbling block in the second year of her course set Bachelor of Business, Bachelor of Science in Information Technology combined degree student Seline Hardy in a surprising new direction.

"In my second year, I was getting cold feet – what am I doing, where am I going, how did I get here?" she says.

As she floundered, a representative from the UTS Women in Engineering and IT (WiEIT) program reached out, offering Seline support and a place to study with other female students in her discipline.

"After a while, it started to become more of a formal relationship where I was volunteering with them, I got involved with the speakers' program, I started doing bits and pieces in the office and then eventually it led to my first scholarship," Seline says.

"They completely turned around my career."

An internship with the Australian Computer Society followed, which opened the door to industry, surrounding Seline

with likeminded professionals and giving her a deeper insight into how she could use her degree to access the sort of career she wanted.

"It made me realise that I didn't really enjoy the theory, but the industry was where the reward was. It kind of solidified why I was at university – learn the theory first, and then go and do amazing things in industry," she says.

Today, Seline is a senior business analyst at Westpac, working on major projects that test the theoretical and practical knowledge she gained during her time at UTS. Her experience with WiEIT shaped her career to such an extent that she is now a mentor with the UTS Lucy Mentoring Program, working with female students to share her experience of being a professional woman in the IT workforce.

"I never thought after having cold feet that the university would be there to support me, and now I have a career," she says.

"I'm still asking myself: how did I get here?"

Read more student profiles
[uts.edu.au/it-student-profiles](https://www.uts.edu.au/it-student-profiles)

The Women in Engineering and IT (WiEIT) Program at UTS began in 1981 and is the longest running such initiative in Australia. Students have access to many WiEIT programs and events including:

- > Autumn and Spring lunches featuring guest speakers
- > Weekly "One of the Guys" mentoring sessions
- > Inter-university networking events.
- > The Lucy Mentoring Program (LMP), in its 8th year in 2017. LMP is open to female students in the second or higher year of their undergraduate degree. Students are matched with an industry mentor to work together on an agreed project for 35 hours between May and October. Applications close mid-March through the WiEIT website.
- > WiEIT's Volunteering: Alumni and Undergraduate Leadership Team (VAULT), a team of students that are committed to promoting engineering and IT to girls and young women and which supports a number of outreach events throughout the year. VAULT is open to all UTS students and members receive leadership, communication and public speaking training.
- > Scholarships are available for current UTS students to support them during their degree (see SCHOLARSHIPS on page 28)
- > Support, referrals and information, and liaison with staff is available for current UTS female engineering and IT students.

For more information see:
[wieit.uts.edu.au](https://www.wieit.uts.edu.au)

UNIVERSITY LIFE

"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!"

Jacob Vartanian
Bachelor of Engineering,
Mechanical & Mechatronic
President, Robotics Society



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

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

BiG

BiG 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. BiG aims to provide all members with a variety of social and career-focused events. The club even won the UTS Club of the Year Award in 2011.
utsbig.com.au

UTS:GLOBAL EXCHANGE*

The UTS Global Exchange program assists you to study overseas for one or two sessions at a UTS partner university. Most of our partners teach IT courses in English, while also providing you with the opportunity to study the local language.
uts.ac/UTSExchange

*Some international students might not be eligible to participate in this program. International students cannot go on exchange in their home country. Making new friends and pursuing new interests are some of the most rewarding experiences university has to offer. UTS has over 100 clubs and societies on campus, along with bars, cafés and a range of sporting facilities, including a multi-purpose sports hall and gym.

UTS BUiLD

Beyond UTS International Leadership Development (BUiLD) provides you with a range of opportunities to build leadership potential. BUiLD takes you beyond your degree, providing the chance to explore social enterprise, sustainability and social justice. As part of BUiLD you can participate in overseas volunteering, with most programs including a travel grant. On completion, the BUiLD program will appear on your Australian Higher Education Graduation Statement (AHEGS).
uts.ac/UTSBUILD

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.
uts.ac/HELPSProgram

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

SCHOLARSHIPS

UTS offers a large range of scholarships to commencing and current students to further support career aspirations in Engineering and Information Technology.

For information on all scholarships and how to apply, please visit: uts.edu.au/scholarships

FOR COMMENCING STUDENTS (DOMESTIC)

SCHOLARSHIP NAME	AWARDED TO:	STUDENT TYPE	COURSE TYPE	BENEFIT	DURATION	ATAR	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.	Commencing	UG	\$49,500 over 3 years	3 years	90+	Merit and Industry Placements
DEAN'S MERIT SCHOLARSHIP - ENGINEERING & INFORMATION TECHNOLOGY	High achieving commencing students with the top ATAR enrolled in a UTS Faculty of Engineering & Information Technology undergraduate degree.	Commencing	UG	\$10,000 per year	2 years	95+	Merit
WESTPAC BICENTENNIAL FOUNDATION YOUNG TECHNOLOGISTS	High achieving school leavers with a passion to bring about change through cutting-edge technology and innovation. All students studying IT at UTS are eligible to apply for this scholarship. Preference is given to students with financial and/or educational disadvantage(s).	Commencing	UG	\$5,000 per year	4 or 5 years	80+	Preferred
INTECH CREDIT UNION SCHOLARSHIP IN INFORMATION TECHNOLOGY	Students commencing in the first year of the Bachelor of Science in Information Technology, Diploma in Professional IT Practice, including combined degrees. It is also open to non-current school leavers.	Commencing	UG	\$5,000	1 year	80+	Equity
AS A CURRENT STUDENT, YOU CAN APPLY FOR:							
JOHN HUGHES MEMORIAL SCHOLARSHIP	IT students in need by providing funds in support of study related costs and materials and assistance with living expenses.	Current	UG	\$2,500	1 session	N/A	Equity

UTS offers many more industry sponsored scholarships with work placements for current students including: Unilever, Ericsson, Telstra, Challenger, NSW Government – DAC, Juniper Networks and more!

Please visit uts.edu.au/scholarships to find out more about scholarships offered at UTS: Engineering and IT.

1. ATAR score excludes bonus points.
2. Please refer to the Conditions of Award to confirm the Equity eligibility criteria for each applicable scholarship.
3. Co-op scholarships combine opportunities for practical work experience with sponsor organisations, in addition to financial support.
4. Application deadlines vary, with some scholarships for commencing students closing as early as June in the year before the study commences. Ensure you check the UTS website for closing dates.



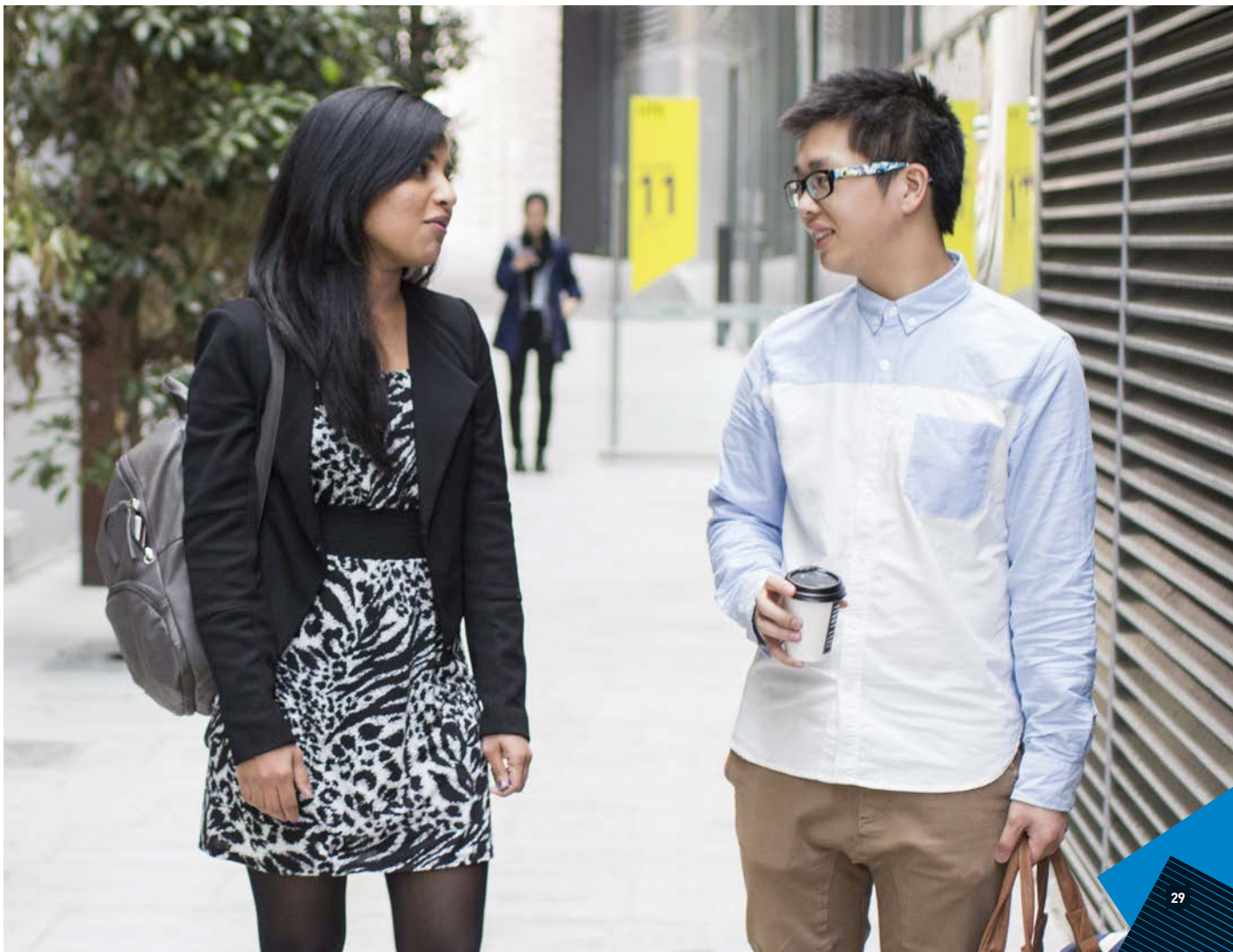
SCHOLARSHIPS FOR INTERNATIONAL STUDENTS

INFORMATION TECHNOLOGY INTERNATIONAL UNDERGRADUATE EXCELLENCE SCHOLARSHIP

About	Value	Application deadline
Two scholarships per year are awarded to high achieving international students commencing the Bachelor of Science in IT or the Bachelor of Science in IT, Diploma in IT Professional Practice.	35% contribution to tuition fees for one session of full-time study	For further information including eligibility criteria and application deadlines, please check online.

UNIVERSITY-WIDE SCHOLARSHIPS

UTS offers a range of scholarships to high achieving students and to assist students in need of financial assistance. Check online for more details.



Fees, Scholarships & Financial Assistance

TUITION FEES

Most domestic students will be studying in a Commonwealth Supported Place which means the Australian Government makes a contribution to the cost of your study while you pay a student contribution. If eligible, you can elect to pay your student contribution upfront or defer payment of your student contribution using HECS-HELP visit fees.uts.edu.au for more info.

For information on fees for international students visit uts.edu.au/international. Note, this guide is not intended for international students.

STUDENT SERVICES AND AMENITIES FEE

Students are required to pay a Student Services and Amenities Fee. This fee funds services and amenities at UTS such as social and cultural clubs, services for developing students study skills, UTS food, beverage and retail outlets (including a 10% discount for students), and the second-hand bookstore. If you're an Australian citizen or on a humanitarian visa, this fee may be deferred through a new government loan scheme called SAHELP. For more information see fees.uts.edu.au

SCHOLARSHIPS

UTS is proud to award a large number of scholarships to its students every year. Through providing scholarships, the university endeavours to reward achievement and recognise motivation to succeed.

UTS is also committed to providing support to students experiencing financial hardship and/or other educational disadvantages. See page 28 for Scholarship specific to the Faculty of Engineering and IT.

For information on all scholarships visit uts.edu.au/future-students/scholarships

BIT Co-operative Scholarship

This course is aimed primarily at Australian Year 12 students and is not available to international students. Applicants must apply through UAC but also apply directly to UTS by completing the online BIT application questionnaire. For more information and to apply online, visit uts.ac/bit_apply

FINANCIAL ASSISTANCE

The UTS Financial Assistance Service can help students with practical and financial aspects of life at university. Domestic UTS students with ongoing and long-term low income can approach our financial assistance service for support with advocacy to Centrelink, information on HECS and FEE-HELP, loans and equity based scholarships and grants, and advice on budgeting. As a UTS student you may be eligible for an interest free student loan from UTS of up to \$500 to assist with bills, rent, one-off living expenses and other costs, such as medical costs. For information on financial assistance at UTS visit ssu.uts.edu.au/fassist



**UTS RANKED
AUSTRALIA'S #1
YOUNG* UNI**

*Times Higher Education 150 Under 50 rankings, 2016.
QS World University Rankings Top 50 Under 50, 2016-2017.

Applying to UTS

DOMESTIC STUDENTS

Domestic students who wish to apply for entry into one of the undergraduate programs at UTS must first lodge an online application through the Universities Admission Centre (UAC) uac.edu.au

The UAC application process commences in August each year, and continues through till the end of September. Students applying through UAC must submit their application before the end of September as late fees will be applied to your application by UAC for any applications received after this date.

To be eligible to apply for a course at UTS students must satisfy at least one of the following minimum admission requirements:

- > Must have attained a full NSW HSC or equivalent with an ATAR of 69 (excluding bonus points), or
- > Completed TAFE TPC, Associate Diploma, AQF Diploma or Advanced Diploma, or
- > Completion of one year of tertiary studies (must be full time), or
- > Be at least 20 years of age at 1 March 2018.

Check the UTS website for full admission requirements.

CURRENT SCHOOL LEAVERS

Admittance for Australian high school students into an undergraduate program at UTS is based on your ATAR or IB results. If you completed your IB in a country other than Australia, you may be required to demonstrate your English language proficiency.

MATURE AGE AND NON-CURRENT SCHOOL LEAVERS

The selection process for mature-aged students and non-current school leavers is based on academic merit. Academic merit is measured by your previous ATAR or equivalent interstate rank, and/or further tertiary studies. Credit recognition for tertiary studies that you have already been completed may be awarded if you have completed studies related to the course you are applying for. For further information regarding credit recognition eligibility and requirements, visit uts.edu.au

INDIGENOUS AUSTRALIANS

The Jumbunna Indigenous House of Learning provides Australian Aboriginal or Torres Strait Islander students specialised assistance to gain entry into UTS through the Jumbunna Direct Entry Program or UNISTART. For further information regarding, please visit the Jumbunna website

uts.edu.au/future-students/indigenous

INTERNATIONAL STUDENTS

You are an international student if:

- > you are not an Australian or New Zealand citizen
- > you do not have full Australian Permanent Resident status
- > you hold a temporary protection visa
If you classify as one of the above, you must apply as an international student directly through UTS:International.

International students may apply to UTS at any time. The closing dates for applications for particular sessions are as follows:

February session (Autumn)

15 December

July session (Spring)

15 June

It is best to apply early to allow yourself plenty of time to organise your Australian student visa to study at UTS.

Academic Requirements for international students

Entry into UTS: Engineering and IT courses is competitive. You will be required to demonstrate a competitive pass in a recognised matriculation examination equivalent to an Australian Year 12 qualification.

English language requirements (for all IT courses)

If your previous education was not conducted in English, you will be required to demonstrate proficiency in English by completing an English language test or program recognised by UTS. As a guide, the scores required are shown in the following table:

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

CONTACT UTS INTERNATIONAL

General enquiries:

international@uts.edu.au

Tel (outside Australia): + 61 3 9627 4816

Free call within Australia: 1800 774 816

Application enquiries:

international.applications@uts.edu.au

Tel: + 61 2 9514 1531

Face-to-face enquires:

To have your questions about studying at UTS answered face-to-face, you can:

- > visit a UTS student recruitment agent.
Find an agent in your country by visiting uts.ac/AgentFind
- > speak with a UTS representative at a UTS international event: check our listing at uts.edu.au/future-students/international/international-events

Applying to UTS (cont)

ENTRY SCHEMES

UTS access schemes take into account a range of educational disadvantages that might have affected your most recent academic performance. The following access schemes assist applicants to gain entry to UTS courses:

Year 12 Bonus Scheme

If you're in high school and perform well in the HSC subjects relevant to the degree you're applying for, you might be eligible to receive up to a maximum of five Year 12 Bonus points.

The below table shows the HSC subjects that can help you accumulate bonus points for entry into a UTS IT course.

inpUTS Educational Access Scheme (EAS)

If you have applied to be assessed for the inpUTS Educational Access Scheme (EAS) at UTS, you may be granted up to 10 concessional ATAR points. The EAS scheme is open to current high school leavers, as well as students with tertiary qualifications who have experienced educational disadvantage. In order to be eligible for bonus or concessional points at UTS, you must first meet the matriculation eligibility requirements above, which includes achieving a minimum ATAR of 69 (80 for Law).

Schools' Recommendation Scheme (SRS)

This scheme aims to support year 12 students who are eligible to apply for support on the basis of financial hardship or school environment (S01C & S01E only) through the inpUTS Educational Access Scheme. In order to be eligible for this scheme, students must achieve a minimum ATAR rank of 69 (80 for Law). Potential applicants must submit both an EAS application for financial hardship as well as an SRS application via UAC.

UTS Elite Athletes and Performers Special Admissions Scheme

The UTS Elite Athletes and Performers Special Admissions Scheme awards 5 concessional points to potential applicants who are elite athletes and/or performers who have represented their school or state at a national level competition level, and whose sport or performance commitments have impacted on their studies.

For more information on UTS' entry schemes, visit

undergraduate.uts.edu.au/entryschemes

For more information about access schemes contact:

UTS Equity & Diversity Unit

Tel: +61 2 9514 1084

Email: equity@uts.edu.au

Subject code	Subject name	Performance band	Bonus points
15030	Biology	6 / 5 / 4	4 / 3 / 2
15050	Chemistry	6 / 5 / 4	4 / 3 / 2
15080	Design and Technology	6 / 5 / 4	4 / 3 / 2
15100	Earth & Environmental Science	6 / 5 / 4	4 / 3 / 2
15120	Engineering Studies	6 / 5 / 4	4 / 3 / 2
15130	English Standard	6 / 5	3 / 2
15140	English Advanced	6 / 5 / 4	4 / 3 / 2
15160	English Extension 1	E4 / E3 / E2	4 / 4 / 2
15170	English Extension 2	E4 / E3 / E2	5 / 4 / 3
15200	Industrial Technology	6 / 5 / 4	4 / 3 / 2
15210	Information Processes and Technology	6 / 5 / 4	4 / 3 / 2

The Year 12 Bonus Scheme is applicable to all UTS IT courses with the exception of the Bachelor of IT Co-operative Scholarship Program and combined Law degrees.

You do not need to apply for bonus points as they are automatically calculated based on UAC application information. For more information visit uts.ac/yr12bonuspoints

ENTRY PATHWAYS

Entry pathways are available for domestic and international students who don't gain entry into their preferred UTS course based on their ATAR result.

For more information on pathways into UTS

undergraduate.uts.edu.au/pathways

Complete a UTS:INSEARCH Diploma

UTS:INSEARCH is the premium pathway provider to UTS. Diploma programs can provide direct entry into corresponding undergraduate degrees and you could fast-track into the 2nd year of a UTS undergraduate degree, depending on the course you choose. Each year over 90 per cent of INSEARCH diploma graduates are eligible for direct entry in the second year of a UTS degree.

Graduates from the relevant UTS:INSEARCH IT diplomas who are then accepted into a UTS: IT course will receive up to 48 credit points of credit recognition.

Successful completion of the Diploma of Information Technology with the required GPA* will allow direct entry into the following UTS: IT courses:

- > Bachelor of Science in Information Technology (international students only)
- > Bachelor of Science in Information Technology, Diploma in Information Technology Professional Practice
- > Bachelor of Business, Bachelor of Science in Information Technology

*Articulation for international students in based on no more than two subject fails

Foundation studies for international students

UTS Foundation Studies provides pathways to UTS:INSEARCH diplomas and entry* into the first year of an undergraduate degree at UTS for international students (provided you meet the academic admission requirements and if you obtain exceptional results). For more info, visit insearch.edu.au

*Subject to successful completion of a diploma with the required grade point average.

Complete a TAFE Diploma (domestic students only)

Students who have completed an eligible TAFE Diploma or Advanced Diploma are eligible for 24 credit points of unspecified electives in the following undergraduate IT courses:

- > Bachelor of Science in Information Technology
- > Bachelor of Science in Games Development
- > Bachelor of Science in Information Technology, Bachelor of Arts in International Studies
- > Bachelor of Science in Information Technology, Bachelor of Creative Intelligence and Innovation

Students may be eligible for additional credit points via challenge tests or portfolio recognition. Students apply for Bachelor of Science in Game Development may also submit an optional game portfolio. For more information visit uts.ac/UGAdmissionReq

Commence study of a course with lower ATAR requirement (domestic students only)

Students who commence study at either UTS or another university can apply to transfer to their preferred UTS degree after one year. The marks you achieve in your first year of study will count towards your application and you might be eligible to receive credit recognition towards your final degree for some of the subjects you've studied. For more information on all entry pathways in to UTS visit uts.edu.au/future-students/undergraduate/non-current-school-leavers/entry-pathways

CREDIT RECOGNITION

If you have already completed, or partially completed a university course, you might be eligible for credit recognition. This will either exempt you from certain specific subjects or reduce the number of elective subjects you need to complete. If you have completed a TAFE Diploma or Advanced Diploma in a discipline related to information technology, or a UTS:INSEARCH Diploma of Information Technology, you will also be eligible for credit recognition.

The prior study must have been completed before commencement of this course, but no earlier than three years before commencement. You must be able to demonstrate that your knowledge is current.

Credit recognition is determined on a case by case basis, however UTS publishes some of its standard credit recognition agreements through the Credit Recognition Database, which can be found at uts.edu.au/future-students/credit-recognition

CONTACT US

Domestic Students



Tel: 1300 ASK UTS (1300 275 887)
Online inquiry: ask.uts.edu.au
Email: feit@uts.edu.au

it.uts.edu.au/future

International students UTSInternationalStudents

Tel: 1800 774 816 (free call within Australia)
Tel: +61 3 9627 4816 (for international calls)
Email: international@uts.edu.au
Web: uts.edu.au/international

Student Centre

235 Jones Street,
Building 10, Level 2
PO Box 123
Broadway NSW 2007
Australia

VISIT AUSTRALIA'S #1 YOUNG UNI



CHECK OUT OUR REINVENTED CAMPUS AND DISCOVER
WHY WE'RE RANKED AUSTRALIA'S NUMBER 1 YOUNG UNI.

UTS OPEN DAY

SATURDAY 26 AUGUST 2017

9am – 4pm

Register at openday.uts.edu.au

FOR INTERNATIONAL STUDENTS:

To have your questions about studying at UTS answered face-to-face, you can: visit a UTS student recruitment agent – find an agent in your country by visiting uts.ac/AgentFind speak with a UTS representative at a UTS international event – check our listing at uts.edu.au/international

DISCLAIMER: The information in this brochure is correct as of February 2017. Changes in circumstances after this date might alter the accuracy or currency of the information. UTS reserves the right to alter any matter 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

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