Welcome

At UTS, we think differently.

Innovation is at the core of what we do, from our state-of-the-art campus to our next-generation, transdisciplinary degree programs in Technology, Innovation and Creative Intelligence.

Our signature approach to learning ranks amongst the best in the world, placing us in the world’s top 10 young universities (QS Top 50 Under 50 2018 and Times Higher Education’s Young University Rankings 2018).

We’re a university for the real world. Our industry partners help us shape our course content, which means everything you study reflects the real world of work.

Our campus lies in the heart of Sydney’s creative and digital industries hub so you’ll be part of a thriving entrepreneurial community.

Our students network with industry experts both inside and outside the classroom. Internships are a common feature of many of our degrees, as are opportunities for international study and work experience.

Education continues beyond the classroom at UTS. We also offer a range of programs to help our international students succeed. From academic support, to career and leadership development, UTS is the perfect place to shape your future.

Each year we welcome close to 5000 international students to UTS. Our students come from 120 different countries, including Australia, which makes our campus a vibrant, dynamic place to study and socialise.

As you read through this guide, you’ll discover the benefits of studying at UTS and living in Sydney – where you can enjoy a world-class education in the heart of one of the world’s most exciting cities.

I look forward to seeing you on campus soon.

Professor William R Purcell
Deputy Vice-Chancellor and Vice-President
(International and Advancement)

Within the Australian Technology Network (ATN) agreement, UTS has committed to a 30 per cent reduction in greenhouse gases (from 2007 levels) by 2020/21.

For more information, visit: sustainability.uts.edu.au

UTS is a member of the Australian Technology Network (ATN), an influential alliance of five distinctive and prominent Australian universities located in each mainland state. ATN is committed to forging partnerships with industry and government to deliver practical results through focused research. The Network educates graduates who are ready to enter their chosen profession, dedicated to the pursuit of knowledge and eager to claim a stake in building sustainable societies of the future; and continues to champion the principles of access and equity that have ensured its members are the universities of first choice for more students.
Experience UTS in virtual reality!

Download the ‘UTS VR’ app or visit www.vr.uts.edu.au and get a taste of our campus, facilities, student life and student services.
Sydney. There’s no better place to be.

Stunning beaches, iconic buildings, endless festivals and a thriving sports culture? In Sydney, we’ve got it all. With a great climate, a true mix of cultures and world-class national parks right on our doorstep, there’s something for everyone in this beautiful harbour city. Sydney is a great place to live – and an even better place to study!

FACTS

24.4 million
Population of Australia (ABS)

5.0 million
Population of Greater Sydney (ABS)
TOP 10 THINGS TO DO AROUND SYDNEY

1. Explore Sydney by ferry – head to Manly for a game of beach volleyball, Watson’s Bay for fish and chips, or Cockatoo Island for a lesson in Sydney’s convict history.

2. Don’t miss the Sydney Opera House! Catch a performance, snap a photo, or just sit on the steps and enjoy the view.

3. Walk the coastal track from Bondi Beach to Coogee and cool off with a swim (in between the flags, of course!) – Along the route in October each year, catch Sculpture by the Sea – the largest free sculpture exhibition in the world!

4. Get up close with some of Australia’s weird and wonderful native animals at the world-famous Taronga Zoo, with a spectacular backdrop of Sydney Harbour in the background.

5. Cross the Sydney Harbour Bridge and explore Wendy Whiteley’s Secret Garden at Lavender Bay, a hidden piece of Sydney’s creative history.

6. Get cultured in the great outdoors – grab tickets for Symphony in the Domain, Opera on Sydney Harbour, or the open-air cinema at Mrs Macquarie’s Chair.

7. See Sydney’s history and its future side by side with a visit to The Rocks and Barangaroo – enjoy historic walks, annual art installations, and the striking Sydney foreshore.

8. Grab a meal, ride the old carousel or catch an incredible fireworks display at the Darling Harbour entertainment precinct.

9. Watch a game of cricket, tennis, rugby league, AFL or soccer at one of the city’s iconic sports grounds. Feeling competitive? Get in the mood by wearing some team colours.

10. Love nature? Head up to the Blue Mountains and hike some of the region’s most beautiful trails.

ENTERTAINMENT TO SUIT ALL TASTES
See the best of Sydney throughout the year, thanks to the city’s vibrant events calendar – think concerts, film festivals, art installations, theatre productions and sports competitions. The best part? Lots of these events are outdoors – and free!
About Sydney

6th
BEST CITY IN THE WORLD
Condé Nast Traveler’s 2017

9th
BEST STUDENT CITY
QS Best Student Cities 2018

10th
BEST CITY FOR QUALITY
OF LIFE
Mercer’s 2018 Quality of Living survey

SYDNEY CBD

UTS IS:

5 minutes’ walk to Central Station and Chinatown.

10 minutes’ walk to cinemas, theatres, cafes, galleries, markets and live music venues.

10 minutes by train to the Opera House.

30 minutes by public transport to Bondi Beach or Coogee Beach.

90 minutes by train to bushwalking, camping and rock climbing in the Blue Mountains.
SYDNEY'S CLIMATE IS MODERATE

<table>
<thead>
<tr>
<th>Season</th>
<th>Months</th>
<th>Celsius °C</th>
<th>Fahrenheit °F</th>
<th>Sunny days</th>
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<tbody>
<tr>
<td>Autumn</td>
<td>March – May</td>
<td>15–22</td>
<td>58–72</td>
<td>59</td>
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<tr>
<td>Winter</td>
<td>June – August</td>
<td>9–17</td>
<td>48–63</td>
<td>63</td>
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<td>Spring</td>
<td>September – November</td>
<td>11–23</td>
<td>52–73</td>
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<td>Summer</td>
<td>December – February</td>
<td>19–26</td>
<td>65–78</td>
<td>60</td>
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Suman Laudari, Nepal
PhD: Education
“I like Sydney because you get to meet people from all over the world, it is very multicultural. I also love being in nature and Sydney really offers that – if you take a train ride for half an hour, you can go to a place where you get to explore and enjoy nature.”
Sydney’s City University

UTS and Sydney? They go hand in hand.

Location is everything – and at UTS, our campus is at the heart of the action. You’ll be right in the middle of a rapidly changing and vibrant urban environment, with industry opportunities just a few steps away.

More than 40 per cent of Sydney’s digital and creative industries are located right here in our neighbourhood – so you’ll be surrounded by leading design, architecture, advertising, fashion and media companies.

We’re also part of a vibrant technology hub, with more than 60 per cent of regional technology headquarters and operations centres based in Sydney. It’s also a great place to be an entrepreneur: Sydney is home to 60 per cent of Australia’s start-ups, with lots of emerging tech companies situated right near our campus.

Sydney is also Australia’s business and financial capital. More than 90 per cent of banks have their regional headquarters here, as do more than 200 multinational organisations. As a student, there’s no better place to launch your future!

But life at uni isn’t all about work, work, work. At UTS, we also like to play! We’re walking distance to lots of good stuff, including the CBD, Darling Harbour, shopping, food and nightlife. You’ll also be close to a number of interesting Sydney neighbourhoods such as Newtown, Glebe and Surry Hills – with their unique micro-cultures, you’ll see why Sydney is known as the city of villages. And, no matter where you’re coming from – or going to! – UTS is easy to get to: we’re just a few minutes’ walk from Central Station and Railway Square.

UTS PROGRAMS OUTSIDE AUSTRALIA

Study at UTS in China or Hong Kong. These fully accredited offshore courses have the same structure, learning outcomes and award as their Sydney counterparts.

uts.edu.au/future-students/international/offshore-courses

SHANE FERNANDEZ, INDIA

Master of Media Arts and Production (Graduate)
Producer, Start VR

“I decided to come to Sydney because it’s where the opportunities are at the end of the day. It’s where all the headquarters of the big TV channels are in Australia and it has many commercial production houses. I found that Sydney has at least 100 production houses that I know of, so choosing Sydney was a no-brainer.”

Photo: Destination NSW
Everything you need is right on your doorstep. At UTS, you’re just minutes away from the best of what Sydney has to offer.

▲ CENTRAL PARK
Central Park is a downtown oasis – and one of Australia’s most talked-about developments. With open parklands, shopping, galleries, art installations and cinemas, there’s something for everyone at Central Park. Hungry? Grab a bite at one of the many options in the neighbourhood – try Spice Alley for street food, Glider for great coffee, or the Old Clare Hotel for a long and lazy afternoon.

▲ SPICE ALLEY
Tucked behind a laneway next door to Central Park, an outdoor street-food market with dishes from across Asia invites you in. The aroma of exotic spices lures hungry locals to tasty eats at student prices. Treat yourself to Cantonese comfort food, sushi burritos or a classic bowl of Vietnamese pho – there’s something for all tastes!

▲ DARLING HARBOUR
Forget the New York High Line – walk (or cycle!) the Sydney Goods Line from UTS to Darling Harbour, passing UTS’s Dr Chau Chak Wing Building on your way. Once you arrive, jump on a ferry, visit the aquarium, grab a bite to eat or explore the Darling Quarter. Visiting at night? Watch spectacular fireworks displays during special events.

▼ BROADWAY SYDNEY
If you fancy a short stroll, Broadway Sydney is just a 10 minute walk from UTS. The shopping centre features a large food court, grocery stores, a 12-screen cinema and major retailers including well-known fashion stores and chains. It’s a great place to go if you’re in the mood for some shopping and an afternoon movie.

▼ CHINATOWN
Eat. Shop. Browse. Sing. It’s all right here in Sydney’s Chinatown, just a short walk from UTS. Eat out, explore night-time markets, sing your favourite karaoke tune, or pick up supplies at a specialty supermarket. Looking for something in particular? Paddy’s Market is home to food, fashion, souvenirs and household supplies – and just about anything else you can think of.
UTS Rankings

2017 SNAPSHOT OF UTS

- **44,753** students enrolled at UTS onshore and outside Australia
- **14,148** international students
- **1220** incoming study abroad and exchange students
- **560** UTS students studying overseas on exchange

**QS TOP 50 UNDER 50 2019**
- 1st in Australia
- **10th** globally

**5 STAR RATED** for excellence across all categories

QS Stars™ 2014-2017
QUACQUARELLI SYMONDS (QS)

**160** GLOBALLY
World University Rankings 2019
QUACQUARELLI SYMONDS (QS)

**95%** of UTS research has been benchmarked at world standard or above
AUSTRALIAN GOVERNMENT’S EXCELLENCE IN RESEARCH FOR AUSTRALIA (ERA) EVALUATION IN 2015.
880
UTS students studying overseas on a short-term experience

31,893
undergraduate students

10,853
postgraduate coursework students

2007
postgraduate research students

3632
full-time staff

FACT
The iconic UTS Tower Building is the tallest educational building in Australia at a whopping 28 stories high!

TOP 400
OVERALL
Academic Ranking of World Universities (ARWU) 2017
SHANGHAI JIAO TONG

TOP 250
OVERALL
World University Rankings 2018
TIMES HIGHER EDUCATION

YOUNG UNIVERSITY RANKINGS 2018
1st in Australia
16th globally
TIMES HIGHER EDUCATION
The right connections

We’re well connected – and you will be too. At UTS, we’ve built partnerships with leading organisations that share our passion for creativity and technology. These partners will play a key role in shaping your UTS experience, and they might even help to kick-start your future career.

ACCESS TO INDUSTRY
At UTS, all our degrees are shaped by extensive industry contribution. That means our course content responds to the realities of your future career. You’ll work with industry-standard equipment, and learn best practice techniques as they relate to your chosen field. You’ll also engage with industry projects, create solutions to real-world problems, and participate in industry-run competitions. You might even undertake a professional internship or industry placement as part of your degree.

Want more? Outside the classroom, you will establish connections at networking events and have mentoring opportunities. You’ll even have access to a range of industry scholarships that’ll support you to succeed.

LEARN FROM THE BEST
Practice makes perfect, and nobody knows that better than our exceptional teaching staff. Many of our teachers are accomplished practitioners, and bring a wealth of industry expertise – as well as government, community and professional connections – into the classroom. For example: Apple Co-founder Steve Wozniak is a Distinguished Professor of Technology in the Faculty of Engineering & Information Technology and a Core Member at the UTS Centre for Artificial Intelligence.

RESEARCH THAT COUNTS
At UTS, we’re responding to the big questions of tomorrow. We’ve got a fast-growing reputation as a progressive and future-focused research university, with an emphasis on emerging issues of technological and social disruption. And we’re working for the greater good: we’re committed to embedding social justice as a core value of our research approach.

We’re collaborative, too – we work closely with academic, industry and community partners, and we’ve established high quality research links with university partners around the world through our Key Technology Partnerships program.

IMMERSIVE PARTNERSHIPS
When it comes to industry connections, we’re pushing the boundaries. Our new partnership with the Sydney Cricket and Sports Ground Trust (SCG Trust) is the first of its kind in Australia. This centre of excellence brings UTS students, and sector-leading sport and exercise scientists and physiotherapists together with elite athletes at Sydney’s premier sporting precinct.

And it’s great news for you: if you’re a sport and exercise, sport management or postgraduate physiotherapy student, some of your studies will take place at our new Moore Park campus. You’ll be immersed in a vibrant sports environment, surrounded by the elite sports programs that are based at the SCG – think cricket, rugby league, rugby union, Australian rules and football.
Do you have big ideas? UTS Startups is a new community of young entrepreneurs across UTS. Its aim is to engage broadly with UTS students, inspire them to become startup founders, bring these startups together and connect them to opportunities and support.

UTS Startups is a founder-focused community, allowing students to see the opportunity in startups, and begin their journey when it’s right for them. It’s not about prescribing a path or formula, but instead creating the environment where UTS Startups are exposed to support, resources and opportunities to progress, both inside and outside the university.

Who can join and how? To be recognised as a UTS Startup, applicants must demonstrate a compelling idea, that they’re pursuing a large market, and that they plan to (or are currently) approaching that market in a scalable fashion. Any stage of startup can join, even just an idea, as long as there is at least one founding team member who has been a UTS student in the last 12 months.

What will they receive? Once accepted, UTS Startups members will join and leverage the community and industry resources, and spend time developing their venture.

JULIAN REJMANOWSKI, GERMANY
Master of Management
“I love the entrepreneurial spirit at UTS. The skills that you learn are very transferable to your future work. Design thinking was a big skill. They taught us not to focus on the solution but on the problem; from there you can build something really cool to solve the problem.”

ARISMA MELLINA, INDONESIA
Master of Business and Human Resource Management
“I joined UTS SHOPFRONT to practice my consulting skills. From this experience, I learnt how to become a consultant, how to structure projects and how to prepare a good report. It was an integrated learning process, in which I put my theory from class into practice and employed my critical thinking and economic language skills. My group and I received a very good mark, and it’s become my benchmark for pursuing my consultancy career.”

GRETA BUTKEVICIUTE, UNITED KINGDOM
Communications
Global Exchange student at UTS
“UTS offered a lot of different modules that would still be connected to my field but would be something different from what I’m used to in my home university. After I put UTS on my CV as another education institution, I got a chance to work on ‘The X Factor’ and I am now fully employed by the BBC. It’s great to have a full time job before actually graduating and receiving your diploma.”

A GLOBAL PERSPECTIVE
A university degree is one thing, but a global outlook can take your qualifications to even greater heights. At UTS, we’re committed to integrating international perspectives into every aspect of university life. We’ve got an extensive network of strategic international partnerships that support our pathway, joint research and exchange programs. We also have one of the largest student mobility programs in Australia: more than a third of UTS student spend time overseas as part of their university experience – and you can too!

Spend one or two sessions studying overseas as part of our Global Exchange program, or choose a short-term international placement through UTS BUILD, our innovative leadership program. Looking for something closer to home? You can also build international connections right here on campus – connect with students from around the world through our Community Connections program, Peer Network and student clubs.

Note: some international students may not be able to get a visa to study in a third country while on an Australian student visa.
More than just a campus

At UTS, it’s not just the course content that’s inspiring. Our vibrant, interconnected and purpose-built campus is the result of an A$1 billion plus investment in the future of education. With tech-driven learning spaces, designated industry hubs, and student-centric environments for work and play, our campus is one of a kind.

▲ DR CHAU CHAK WING BUILDING
It’s the iconic building at the heart of our campus master plan – and it’s the only building in Australia designed by Frank Gehry. The Dr Chau Chak Wing Building is an urban treehouse that’s been built on the concepts of collaboration and innovation. Housing the UTS Business School, classrooms facilitate discussion and dialogue, while lecture theatres encourage interaction and group work. Need some downtime? Relax or study in the student lounge before or after class.

▲ ENGINEERING AND IT BUILDING
If the stunning façade isn’t enough to get your heart racing, then the purpose-built facilities in the Engineering and IT Building just might do the trick.

Work in civil, electrical, information and communication technology, and mechanical laboratories, and put your skills to the test on industry standard equipment. Study in classrooms and collaborative theatres that encourage a range of learning styles, or visit the Faculty Learning Precinct for individual and small group learning support.

Want more? Watch research as it happens in our immersive 3D Data Arena, which draws academics and industry partners from all over the world.

▲ VICKI SARA BUILDING
At UTS, we’re all about hands-on experiences, and in the Vicki Sara Building – home of the Faculty of Science and Graduate School of Health – hands-on experiences are exactly what you’ll get.

From simulation labs to health care consulting rooms and clinics, world-class laboratories and problem-based learning spaces, this building recreates the sorts of environments that will be central to your future career in science or health care.
The UTS Central project is a significant part of the broader, A$ billion plus UTS City Campus Master Plan. The first phase, to be completed in 2019, will see the transformation of Building 2 into a 17-storey futuristic-looking, glass-enveloped student hub. The lower levels will become a central vibrant student hub and will accommodate a new UTS Library, scholarly reading room, learning commons, collaborative classrooms and theatres, and a student services counter. The nine storeys above will accommodate faculty and research spaces.

A second phase of the UTS Central project proposes an extension to the neighbouring UTS Tower Building (Building 1). The main entrance to UTS will be redefined public and informal learning spaces will be enhanced.

The green heart of UTS – the Alumni Green – sits at the centre of the UTS campus. It's a great place to get together – play table tennis, relax on the grass or catch up with friends for lunch.

With a mix of spaces for solo and group study, the UTS Library is more than just a place to borrow books. It’s located down at Haymarket, a few steps from the law and business buildings – and from coffee or a bite to eat if you need a study break.

Want a change of scene? Head up to the China Library – a gift from the Chinese Government – on level 4 and immerse yourself in its collection of books, audio visual materials and multimedia displays.

Whether you need a place for group work, solo study or to catch up with friends, our purpose-built student spaces have been designed with you in mind. You can find indoor and outdoor study spaces across the UTS campus – many are equipped with power and WIFI access.

UTS students work alongside sector-leading sport and exercise scientists and physiotherapists, as well as elite athletes, at Sydney’s premier sporting precinct – Moore Park. The Rugby Australia Building, which UTS shares with the Australian Rugby Union (ARU), is fast becoming a world-class sport, education and research hub.

This centre of excellence is the first of its kind in Australia to combine university programs with major sporting venues, and is the result of an exciting partnership between UTS, the ARU and the Sydney Cricket & Sports Ground Trust (SCG Trust). This integration of science and sport is designed to be mutually beneficial, giving UTS hands-on access to elite athletes – and providing the ARU with access to valuable performance, injury-management and rehabilitation data.
Study is important, but life at UTS is about work and play. When you’re not in class, make the most of our vibrant social calendar – join a club, attend some free events, explore the city and make new friends. Need support? We’ve got that too – take advantage of services such as health and counselling, careers advice, English-language tutoring and study skills workshops.

**ORIENTATION**
orientation.uts.edu.au
Welcome to UTS! Our Orientation program is about preparing you for university life. Attend seminars, workshops and social events where you can find out more about your classes, learn about our support services, meet people and gain insider tips on living in Sydney. It’s really important to attend Orientation – once classes start, we want you to be ready to jump right in.

**PEER NETWORK**
uts.edu.au/current-students/opportunities/peer-network-program
Looking for a friendly face? Our volunteer Peer Networkers are here to help you when you first arrive on campus – just look for the people wearing orange t-shirts! Peer Networkers are current UTS students who’ll help you settle into UTS, and into life in Sydney. They’ll answer your questions and help you find your way around campus, and they’ll also connect you with other UTS students through the weekly Network Café.

**UTS INTERNATIONAL**
international.uts.edu.au
Got a question, but don’t know who to ask? Come and see us at UTS International. Our team provides friendly advice, assistance and guidance for all international students. You’ll find us on level 3a of the UTS Tower Building.

**Support Services**

**Connect. Live. Learn**

**MONICA GEORGE, INDIA**
Master of Engineering Management and MBA
“Orientation at UTS is super eventful, great fun and is really well organised by a team of welcoming volunteers. You get an overview of the plethora of opportunities available to anyone interested and also get to meet and make friends with so many new people in a short period of time.”

**SUSHMITA MONDAL, BANGLADESH**
Master of IT (Extension)
“I became a Peer Networker because I really love to help people. My role is to help arrange events for new students, such as the international welcome event, and to answer any questions.”

**YOUSEF ABDULLAH AALYOUSEF, SAUDI ARABIA**
Master of Accounting and Finance (Graduate)
“The services that UTS provides for students are really top-notch. Everyone wants to help you and as a student you are the top priority of the University.”

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MULTI-FAITH CHAPLAINCY
uts.edu.au/current-students/support

At UTS, we welcome and respect beliefs of all kinds. Our UTS Multi-faith Chaplaincy represents Buddhist, Christian, Jewish and Islamic staff and students. Whatever your faith, our chaplains are available to assist you with a variety of challenges or concerns, including homesickness, loneliness and spirituality.

HIGHER EDUCATION LANGUAGE AND PRESENTATION SUPPORT (HELPS)
helps.uts.edu.au

When you’re studying, sometimes you just need a bit of extra help – and that’s what UTS HELPS is for. This study skills program provides free English language and academic literacy support – think writing, presentation, study and reading skills workshops, as well as drop-in consultations for assignment writing and preparation. Need to improve your spoken language skills? Practise speaking English with student volunteers through the daily Conversations@UTS sessions and the HELPSMates Buddy program.

DARRELL BAGANG, PHILIPPINES
Juris Doctor

“I joined UTS Catholics Club and I have frequently been involved in different small group sessions and events in the Multi-faith Chaplaincy. It is a really good source of pastoral care for people of all faiths. Prayer rooms are available and I receive updates every week through email on the activities that are available.”

DANIEL YANEZ, MEXICO
Masters of Tourism

“As an International student, the HELPS service is a key element to improving my English written skills and subject grades. I have been given some advice to improve my essays and I realise that my writing skills have improved. Another service that I used from HELPS was the International conversation club. It not only helped me to improve my conversation skills, but I also made many friends. I found in this club a friendly place where I could practise my English and socialise with people from all around the world.”

Michele Xiao, China
Bachelor of Business (Graduate)

“I attended U:Pass because some of my accounting subjects were difficult and I felt I didn’t have enough time in tutorials. I actually received good marks after attending some of the free tutorials - it’s really great that UTS provides these support services to students. U:Pass is more like an interactive group study. The U:Pass leader is a UTS student with a Distinction average, who will teach a group of students and help them practise tutorial work and answer questions.”

PEER LEARNING – U:PASS
uts.edu.au/current-students/support/upass

Taking a tricky subject? Need a bit of help? U:PASS is a study program where senior students provide learning support for early-year students like you. U:PASS tutors have studied the subject before, so they know what they’re talking about. They’ll work with you in small group sessions to help you review lecture notes, share study tips, participate in problem-solving activities or prepare for exams.
Support Services

COMMUNITY CONNECTIONS
communityconnections.uts.edu.au

The best way to learn about another culture? Get to know the people in it! The Community Connections program connects international and Australian students both at UTS and in the wider Sydney community. Take part in community and cultural events, welcome dinners, day trips and volunteering activities.

HEALTH AND WELLBEING
uts.edu.au/current-students/support

UTS offers students and staff a range of health and wellbeing services to ensure you stay healthy and safe – on and off campus.

Medical service
The UTS Health Service provides friendly and confidential medical services to students, staff, alumni and their families.

Traditional Chinese Medicine clinic
The Traditional Chinese Medicine clinic within the Faculty of Science offers acupuncture, herbal medicine and remedial massage to UTS students and staff, and the community.

Mental health services
Your health is important – and that includes your mental health. Our confidential and free counselling service can help you with a range of personal, relationship, psychological, study and administrative difficulties, while our group counselling sessions and workshops can support you through the pressures of study, work and life. Face to face counselling sessions are also available in Mandarin and Cantonese.

UTS Psychology Clinic
psychology-clinic.uts.edu.au

The UTS Psychology Clinic is a not-for-profit teaching and research clinic, and training facility for postgraduate Clinical Psychology students in the Graduate School of Health – and it’s open to UTS students and staff, and the public.

VAN SON TRAN, VIETNAM
PhD student in environmental engineering
“The UTS Health Centre has looked after my entire family when we have problems with our health. During my studies at UTS my wife was pregnant and we visited the UTS Health Centre for several check-ups.”

ARpit ChawlA, INDIA
Master of Engineering (Extension)
“I attended The Welcome Dinner Project through The Community Connections program. The lunch was one of the most refreshing experiences I’ve had in Sydney, especially because I had never been to an Australian home before. It was amazing to not only meet locals but also people from different parts of the world and share stories about their life and culture. Everybody had smiles on their faces; it was just a really happy occasion.”
SAFE, FAIR AND SUPPORTIVE
uts.edu.au/current-students/students-with-accessibility-requirements/accessibility-service

UTS – it’s for everyone. We value diversity and we’re committed to supporting all students to join in the full range of university activities. If you’ve got a disability or ongoing health condition that could affect your study, the UTS Accessibility Service is here to provide advice.

SPORT AND RECREATION
activateuts.com.au/sport

Love sports? Join one of our 30 sports and recreation clubs, or take yourself to ActivateFit, the on-campus gym. You can also combine your love of fitness and travel with the ActivateUTS Recreation program – explore Sydney and its surrounds through sport events, day trips and weekend getaways.

TIZIANA ZINGALI, ITALY
PhD Thesis, ithree Institute

“UTS is a fantastic mix of different people, languages, and customs. It is also very sensitive to social themes such as sexual harassment, the presence of women in research, racism and social equity. Everyone is free to express their opinion and contribute a little to research progress.”

VITOR CESAR TARANTO, BRAZIL
PhD candidate, Centre for Forensic Science

“I fight for UTS through the Kendo Club. We are currently training for Uni Games this year. I loved Uni Games; it was one of the best experiences of being here for sure.”

ARJUN GUPTA, INDIA
Master of Business Administration (Graduate)

“I started a society called Net Impact UTS. The society encourages students from around the world to collaborate on ethical and sustainable decision-making, so once these students graduate they are in a senior management position where their decision can influence the world.”

SOCIAL CLUBS AND EVENTS
activateuts.com.au

There’s more to life than study. With 130 social clubs and a jam-packed events calendar that includes free weekly breakfasts during session, barbecues, live music and festivals, there are lots of ways to get involved in life beyond the classroom.
Support Services

A day in the life

University isn’t just about attending classes. At UTS, there are plenty of places to study, catch-up with friends and relax.

7.30AM
Wake up fresh by starting the day with a work-out at our fully-equipped fitness centre.

9.15AM
Hungry from your workout? On Wednesdays grab a free breakfast on your way to class from the Bluebird Brekkie Bar.

10.15AM
Attend class in one of our state-of-the-art lecture theatres.

12.00PM
Work on your class notes to prepare for your afternoon group meeting.

12.45PM
Got a question? Drop in to one of our Student Centres for some assistance.

1.15PM
Refuel at a variety of eateries on campus or takeaway outlets in The Underground.
2.00PM
Play a game of table tennis or relax on the grass of Alumni Green to recharge for the afternoon.

2.45PM
Meet up at the Courtyard in Haymarket to finish a group assignment. Plug in to the outdoor power ports and connect to WiFi.

4.15PM
Compete with your team in one of the UTS Social Sports competitions.

6.30PM
Grab a quick snack and head to a HELPS workshop to improve your academic skills.

8.45PM
Kick back with the latest films or a game of pool at The Underground.

11.30PM
Need to pull an all-nighter to finish your assignment? UTS has 24-hour access to computer labs and UTS Security can escort you to UTS buildings, residences and Central Station. A Security Shuttle Bus is available to Housing residents seven nights a week from 6.30pm to 1.30am.
Were you born to lead? BUILD is a dynamic leadership program that will take you beyond your degree. Develop your leadership skills – through local and global opportunities – exploring issues of social enterprise, entrepreneurship, sustainability and social justice, and gain a global perspective on what being a good leader is all about. From workshops, seminars, company visits and networking sessions to keynote presentations from leading influencers, this unique program will prepare you for the world beyond the classroom.

Previous keynote speakers include:
- Dr Ela Gandhi, Granddaughter of Mahatma Gandhi
- Senator Sekai M Holland MP, Zimbabwe, Human Rights Activist and UTS Alumna
- Jackie Ruddock, CEO of ethical fashion brand, The Social Outfit
- Tony Broderick, Head of TV Partnerships, Twitter

BUILD participants have enjoyed exclusive site visits to:
- Animal Logic – Award-winning animation and VFX studio (The LEGO Movie, Happy Feet, Iron Man 3).
- Muru-D – Telstra’s accelerator program for start-ups.
- Commonwealth Bank Innovation Lab – A hub to explore the bank’s innovation processes and latest products.

BUILD ABROAD
It’s a big world out there – and BUILD Abroad is your launching pad! BUILD Abroad programs range from summer schools and experiential learning programs to conferences and community development projects all over the world. You can even apply for a BUILD Abroad scholarship to support your travel.

Previous BUILD Abroad programs include:
- University of Stuttgart Winter School – A six-week total immersion in German language and culture right in the heart of Europe.
- Shanghai University – A first-hand economic, cultural and historical experience that combines Chinese-language classes business lectures, industry field trips and cultural activities.
- Engineers without Borders: Humanitarian Design Summit in India and Cambodia – An opportunity to explore the role that engineering and technology play in driving change in developing communities.
- International Internship and Cultural Immersion in Indonesia – An immersive experience of Indonesian culture that combines work and study in a thriving Asian metropolis.
Your pathway to graduate success

careers.uts.edu.au

Your career is in your hands; preparation for graduate success can start from your first months at university as you begin building your professional network. UTS offers resources and tools to guide you on the path to your professional career.

How the UTS Careers service can help you: Getting to know us in your first year

- Attend Orientation for new students
  Orientation is a great place to start your time at UTS. You will be warmly welcomed and shown around campus by current students. You will have the opportunity to meet current staff and students in your faculty and ask questions about what it is like to study at UTS. You will also be introduced to the UTS Careers Service and how it can help you advance your career from the beginning of your time at UTS.

- Look for work opportunities with UTS Careers
  Taking on part-time work to complement your studies is a great way to meet people and discover more about the Australian workplace culture. Discover exclusive job opportunities via UTS CareerHub. We also have a range of workshops, drop-in sessions and resources available to help you in your job search.

- Build your networks
  Build your personal and professional networks by getting involved on campus. Meet other students by joining UTS Network Café. You can also learn professional communications and work in a team by becoming a Peer Networker. Develop new skills and experience the Australian workplace by becoming a volunteer.

Gain specialist employability skills: Mid-way through your degree

- Get personal advice about your future career
  You have access to our personalised and free 15 minute consultations with one of UTS Careers’ friendly and helpful advisors. Discuss your future career options, or ask any work related questions you need to know including advice on applications, excelling in job interviews or networking tips and tricks.

- Put your skills on paper
  Looking for a job? Your resume is your chance to make a great first impression. Make sure your resume is up to scratch with a Resume Review session. Our professional advisors will assist you in making your resume perfect for that job you want.

- Gain skills to excel in the interview
  UTS Careers has a range of resources to help you excel in the interview. Join us for workshops to help you build your soft skills or mock interviews to help you overcome nervousness.

Enter the workplace with confidence: Advanced knowledge and ongoing support from the Careers service in your final years

- Gain workplace confidence with Accomplish Award
  The Accomplish Award program aims to increase your employability skills and prepare you for the Australian workplace. During a series of workshops, you will develop your communication and networking skills. You will also learn about job search strategies.

- Meet employers who are interested in hiring you
  UTS Careers offers a number of careers fairs for students to meet their future employers and scope out life after their degree. Our annual Careers Fair is open to all students, and there are faculty focused career fairs, and a career fair exclusively for international students.

- Keep in touch!
  Your journey at UTS and relationship with UTS Careers continues long after you’ve closed your textbooks. UTS has dedicated Alumni Careers Services to help recent graduates starting out on their career path to navigate the recruitment process. Keep in touch through the UTS Alumni website, join the UTS Alumni Linkedin group or follow @UTSalumni on Instagram.

XUE BAI, CHINA
Bachelor of Nursing

“The Careers Service at UTS has been helpful in assisting me with my individual job application process. They also hold workshops for students to apply for graduate programs. These particular workshops have provided us with tips on how to prepare for the interview stage.”
Scholarships

Are you a high-achieving student? When it comes to financial support, we’re making a big investment: we’ve dedicated A$30 million to provide grants and scholarships support for international students over a five-year period.

From academic excellence awards and full-tuition scholarships, to government-sponsored grants and faculty scholarships, we support students – like you!

CHAMATH EDIRSINGHEGE, SRI LANKA
Bachelor of Engineering

“With the full tuition scholarship I received a big opportunity to study in another country. Without it I wouldn’t have been able to study in Australia. I’m someone who likes to explore the world and I don’t want to remain in one place – I want to go everywhere. So receiving the scholarship is one of the best things for me.”

RAVIRO CHINEKA, GHANA
PhD, Education

“Without the Australia Awards Scholarship I wouldn’t be here, as I couldn’t afford the fees. The scholarship pays for my living allowance and covers health insurance for both myself and my family.”

UTS International scholarships

- Full Tuition Scholarships: full degree scholarships offered to international undergraduate students for up to four years of study at UTS.
- Academic Excellence Awards: awarded to commencing international undergraduate students, and valued at A$10,000, the awards will be credited as two separate A$5,000 instalments for a total of two sessions.
- UTS Insearch Graduate Scholarship: grants awarded to high-achieving UTS Insearch graduates commencing at UTS.

UNDERGRADUATE SCHOLARSHIPS AND GRANTS

Our scholarships are for the best of the best – they’re competitive, and awarded solely on the basis of academic achievement. All the scholarships listed here are open to international students. To be eligible, you must meet the relevant selection criteria, and have been admitted to – or be eligible for admission – to a course at UTS. For more information, visit uts.edu.au/scholarships
Faculty Scholarships
Several faculties offer scholarships for international students:

ENGINEERING
- Engineering International Undergraduate Excellence Scholarship

INFORMATION TECHNOLOGY
- Information Technology International Undergraduate Excellence Scholarship

SCIENCE
- UTS Science International Undergraduate Scholarship for Excellence
- UTS Science International Scholarship for Australian Year 12 Students
- UTS Science International Diploma to Degree Scholarship for Excellence (UTS Insearch)
- UTS Science International Diploma to Degree Scholarship for Excellence (Polytechnics in Singapore)

Australian Government Scholarships

AUSTRALIA AWARDS SCHOLARSHIPS
These prestigious international scholarships and fellowships offer the next generation of global leaders an opportunity to undertake study, research and professional development in Australia. Funded by the Australian Government’s Department of Foreign Affairs and Trade (DFAT), the Australia Awards support international students to gain qualifications that will help them contribute to development success back home.

Please visit: dfat.gov.au/people-to-people/australia-awards/Pages/australia-awards.aspx

ALUMNI? IT'S AN ADVANTAGE!
Thinking of further study? If you’re a previous UTS graduate, you could be eligible for a 10 per cent saving on your tuition fees through the Alumni Advantage Program. The discount applies to full-fee-paying courses, and will be applied automatically when you enrol.

alumni.uts.edu.au/advantage

Financial Aid and Loans
Are you from Canada, Denmark, Germany, Norway, Sweden or the USA? You might be eligible for financial aid to support your studies at UTS. Check with your home government for eligibility requirements.
Feel at home

housing.uts.edu.au

UTS-OWNED ACCOMMODATION
International students at UTS can choose from four residences, all of which are close to campus:

- **Geegal** is a purpose-built group of townhouses accommodating 57 students
- **Bulga Ngurra** is a modern apartment building accommodating 119 students
- **Gumal Ngurang** is a modern apartment building accommodating 252 students in studio, and shared apartments
- **Yura Mudang** has 720 beds comprising studios and shared apartments conveniently located above UTS Building 6
- **Wattle Lane** has 58 beds which are all studios located only minutes away from the main UTS building. This residence is dedicated to indigenous students and is therefore not available to international students.

All UTS residences have spacious communal and barbecue areas, study rooms, games and computer rooms (except Wattle Lane). Gumal Ngurang and Yura Mudang also have a rooftop garden, and Yura has a music room.

All are self-catered, secure and competitively priced. All bedrooms are for one person (except twin shares), with shared kitchens, bathrooms and living areas. Apartments are fully furnished and rent includes gas, electricity, water, cabled internet in bedrooms and limited wireless internet access in communal areas.

You will need to provide your own bed linen and cooking equipment. Licence fees are different for each residence and room type. There are two non-refundable fees: A$40 application fee and A$120 acceptance fee (subject to change).

Due to the high volume of applications, UTS Housing has also sourced reserved beds for students with off-campus providers (Urbanest, UniLodge and Iglu). For more information visit: housing.uts.edu.au

RENTING PRIVATE ACCOMMODATION
If you are organising private accommodation, we recommend you arrange short-term accommodation in Sydney so you can view properties on your arrival and choose something that really suits your needs for the long-term.

Visit UTS Housing's off-campus accommodation website, to find share rooms in private houses and apartments around UTS: uts.studystays.com.au

Share accommodation means you usually have your own room and share a kitchen, living area and bathroom with other students or people who work. Alternatively, you may choose a studio or one-bedroom apartment to live in on your own, but this is more expensive.

All accommodation rentals should come with a residential or tenancy agreement. If you need any help or advice, please contact the UTS Housing Off-Campus Officer at housing.welfare@uts.edu.au or the UTS Student Legal Service at studentlegalservice@uts.edu.au who are here to help you.

LIVING COSTS
The table on the next page details approximate establishment and ongoing costs you may incur while studying at UTS and living in Sydney. This table should be used only as a guide, as individual spending may vary. It is a requirement of the Australian government that prospective international students can demonstrate that they have access to at least A$20,290 a year to fund their living costs in Australia, and additional funds if bringing partners or family.

ESTABLISHMENT COSTS
You should expect to pay approximately A$5200 start-up or establishment costs for independent accommodation. Allow an additional A$1000 to A$1500 for a computer and printer, if required. These costs include items such as a rental bond (up to four weeks’ rent), rent in advance, linen, furniture, telephone and internet connection, kitchenware, personal items and electricity connection, and must be budgeted for. For UTS Housing, you will need to budget for the application fee (A$40), the acceptance fee (A$120), the bond (equivalent of 4 weeks’ rent), two weeks rent in advance and any personal items you wish to purchase.

RESIDENTIAL LIFE PROGRAM
UTS Housing accommodates 1206 students from across Australia and around the world. The Residential Life program provides students with a dedicated support network that assists with the transition of living away from home, enhances learning and organises social activities.

ACCOMMODATION TIP
Don’t pay any money before viewing and being satisfied with a non-UTS property. Until you arrive and get a feel for the area you want to live in, you won’t know whether it is right for you.
## INDEPENDENT ACCOMMODATION

<table>
<thead>
<tr>
<th>Rent per person in shared accommodation within a short commute to UTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly</td>
</tr>
<tr>
<td>A$240* – A$350</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UTS ACCOMMODATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly</td>
</tr>
<tr>
<td>A$225 – A$386</td>
</tr>
</tbody>
</table>

### LIVING COSTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Weekly</th>
<th>Annual</th>
</tr>
</thead>
<tbody>
<tr>
<td>Groceries (eg. food, drinks, toiletries)</td>
<td>A$100</td>
<td>A$5200</td>
</tr>
<tr>
<td>Phone (mobile)</td>
<td>A$20</td>
<td>A$1040</td>
</tr>
<tr>
<td>Internet</td>
<td>A$8</td>
<td>A$520</td>
</tr>
<tr>
<td>Free cabled internet in room and limited free internet access</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Utilities – Gas/Electricity</td>
<td>A$20</td>
<td>A$1040</td>
</tr>
<tr>
<td>Included</td>
<td>Included</td>
<td></td>
</tr>
<tr>
<td>Books/Supplies/Printing</td>
<td>A$16*</td>
<td>A$832*</td>
</tr>
<tr>
<td>Transport costs</td>
<td>A$35^</td>
<td>A$1820^</td>
</tr>
<tr>
<td>A$10^</td>
<td>A$520^</td>
<td></td>
</tr>
<tr>
<td>Total costs</td>
<td>A$426 – A$536</td>
<td>A$22,152 – A$27,872</td>
</tr>
<tr>
<td>A$363 – A$524</td>
<td>A$18,876 – A$27,248</td>
<td></td>
</tr>
</tbody>
</table>

Note: Prices vary depending on the condition of the property, the number of people you share with and the proximity of the accommodation to the centre of Sydney and other amenities.

*Any amount below this will likely be twin share.

* Costs may vary according to course.

^ Transport costs will vary depending on how close you live to campus.
UTS Business School

Accounting | Digital creative enterprise | Economics | Events | Finance |
Human resource management | International business | Management |
Marketing | Sport business | Tourism

IN 2017 UTS BUSINESS SCHOOL HAD:

| 6635 | undergraduate coursework students |
| 1901 | international undergraduate coursework students |
| 131 | students go overseas on global exchange |
Study business where business happens. Australia’s largest financial, innovation and creative precincts are right at our doorstep.

Iconic learning environment. Classes and informal group and individual spaces in inspiring buildings designed by world-leading architects.

Tailor our Bachelor of Business, Bachelor of Management and Bachelor of Economics to your needs, with a choice of majors and sub-majors to complement core business knowledge.

Accredited and respected. One of a select few business schools with the highest accreditation standard of achievement – AACSB International (Association to Advance Collegiate Schools of Business).

Broaden your career prospects. Combine your Business degree with a range of other degrees from across UTS.

Gain industry experience. Internship opportunities are available within all of our undergraduate business programs.

Complete a capstone subject. Students in each of our majors develop solutions to a business problem or a real-life project.

Practice-based learning approach. UTS offers a distinctly experience-based approach to learning. It’ll give you the edge to compete the moment you step into the workforce.

We are ranked in the top 100 for Accounting & Finance, and Business & Management Studies. (QS World University Subject Rankings 2018).

LINN MOLBERG, SWEDEN
Bachelor of Business
“Learning in class is focused on group work, which is really good because even if it’s challenging that’s where all the good ideas come from and you can learn from your peers rather than just figuring things out on your own. As part of the course, we can enrol in a Business Internship. Mine is in the medical device industry, which is interesting because it’s a fast-growing industry due to the ageing population. I’m an intern Project Manager in the marketing department, so I’m distributing a device directly to the consumer. I’m working towards creating a new business model and a new marketing strategy. My marketing subjects come in handy when thinking about consumer behaviour and marketing research. I definitely apply everything I’ve learnt at university in the internship.”

AIKBE ISKAKROVA, KAZAKHSTAN
Bachelor of Business
“I did a Diploma of Business through UTS Insearch before transferring to my degree. At UTS the subject coordinators are usually really helpful, and student feedback is taken into account, which to be honest, is a bit of a surprise. For example, the structure of the subject I did last session was changed with considerations to student feedback – it got changed in a much better way.”
The Bachelor of Business offers students a sound background in all areas of business through common core subjects, in addition to in-depth knowledge in one or more chosen areas of interest. This course provides an understanding of important aspects of business and offers a wide choice of majors and sub-majors. A wide variety of international exchange options are available.

Areas of study
Accounting, advertising, economics, finance, human resource management, international business, management, marketing, marketing communication, integrating business perspectives, business statistics, managing people.

Majors
Accounting, advertising and marketing communication, economics, finance, human resource management, international business, management, marketing.

As a second major only: business law, information technology.

Extended majors
Economics, Finance, Management, Marketing

Course structure
Accounting and Finance majors

Year 1
- Integrating Business Perspectives
- Accounting for Business Decisions A
- Economics for Business
- Business Statistics
- Accounting for Business Decisions B
- Managing People and Organisations
- Marketing Foundations
- Fundamentals of Business Finance

Year 2
- Accounting Standards and Regulations
- Cost Management Systems
- The Financial System
- Quantitative Business Analysis
- Accounting for Business Combinations
- Applied Company Law
- Investment Analysis
- Corporate Finance: Theory and Practice

Year 3
- Assurance Services and Audit
- Taxation Law
- Corporate Financial Analysis (Capstone)
- Select 6 credit points of options
- Management Decisions and Control
- Financial Statement Analysis (Capstone)
- Select 12 credit points of options

List of sub-majors
- Advanced Advertising
- Advertising
- Business Analytics in Marketing
- Business Information Systems
- Business Innovation and Financial Management
- Business Law
- Econometrics
- Economics
- Event Management
- Finance
- Financial Reporting
- Financial Services
- Human Resource Management
- International Business Studies
- International Management
- List of sub-majors
- International Studies
- Information Technology
- Language other than English
- Management
- Management Consulting
- Accounting in Practice
- Marketing
- Mathematics
- Quantitative Management
- Specialist Country Studies
- Sport Management
- Statistics
- Strategic Marketing
- Taxation Law
- Tourism Management
- Sustainable Enterprise

Professional recognition
The Accounting major meets the educational membership requirements for entry into CPA Australia (CPAA), Chartered Accountants of Australia and New Zealand (CAANZ), Chartered Institute of Management Accountants (CIMA), Association of Chartered Certified Accountants (ACCA), and Institute of Public Accountants (IPA).

Students who complete the Human Resource Management major are eligible to apply for the professional member status and/or advancement to a higher level of membership of the Australian Human Resources Institute.

Students who complete a Marketing major are eligible to apply for Associate Membership of the Australian Marketing Institute.

UTS is recognised as an affiliated university under the CFA (Charted Financial Analyst) University Affiliation Program, based on the Bachelor of Business with Finance major.

The Finance major meets the educational requirements for the Financial Services Institute of Australasia (Finsia) associate membership.

Career opportunities
Career options include accountants, auditors, bankers, business advisers, business analysts, business consultants, economists, entrepreneurs, financial analysts, financial planners, human resource managers, project managers, marketing specialists, stockbrokers.
The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each. Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.

### Bachelor of Economics

**Course description**

The Bachelor of Economics offers students the analytical and quantitative skills required for an in-depth understanding of key economic principles. The degree complements this knowledge with the option of majors across selected business disciplines.

The course includes training in econometrics, macroeconomics and microeconomics with an emphasis on practical policy. A capstone subject synthesises knowledge from game theory, experimental economics and industrial organisation to study policy-making in real-world settings.

**Areas of study**

Microeconomics, macroeconomics, econometrics, applied microeconometrics, economic policy, market design, experimental economics, behavioural economics, economics of money and finance, game theory, labour economics, public economics, economics of the environment.

**Course structure**

**Year 1**
- Principles of Microeconomics
- Business Statistics
- Mathematics for Economics and Business
- Select 6 credit points of options
- Principles of Macroeconomics
- Intermediate Microeconomics
- Introductory Econometrics
- Select 6 credit points of options

**Year 2**
- Intermediate Macroeconomics
- Game Theory
- Select 12 credit points of options
- Applied Microeconometrics
- Select 18 credit points of options

**Year 3**
- Market Design
- Select 18 credit points of options
- Economic Policy and Market Design (Capstone)
- Select 18 credit points of options

**Career opportunities**

Career options include economics analysis and modelling, economic forecasting, econometrician, and designing economic policies in industry, government, consulting and financial institutions.

### Bachelor of Management

**Course description**

With majors available in digital creative enterprise, events, sport business and tourism, the UTS Bachelor of Management has been developed to reflect the growing importance of creative and experience-based industries in Australia’s economic future. These industries are at the forefront of a globalised, digitalised and dynamic external environment where innovation and creativity are key.

The Bachelor of Management provides an integrated exposure to professional practice through dynamic and multifaceted modes of practice-oriented education, with built-in internships. Offshore partnerships with established UTS university partners are employed to allow students the option to engage with the UTS exchange program in their fourth session. Offshore and onshore partnerships with industry link students with internships, industry projects, graduate employment, field visits and in-class case studies.

**Areas of study**

Management, tourism, events, sport business, management research skills, business strategy, scenario planning, innovation and entrepreneurship, event management, event sponsorship, promoting events, event and entertainment, tourism, sustainable tourism, current challenges in tourism, tourist experience, tourism promotion, managing professional sport, international sport marketplace, current issues in sport, sport marketing, creative industries in the collaborative economy, managing risk and opportunity, digital strategy and governance, entrepreneurship studio.

**Majors**

Digital creative enterprise, events, sport business, tourism.

Course code: C10348
CRICOS code: 086359B
Course duration: 3 years
Number of credit points: 144
Intake: March, July
Location: City
Fees: A$18,130 per session (see page 134 for further fees information)
Academic and additional requirements: See page 128
English language requirements: See page 129
Course structure

Events major

Year 1
Event and Entertainment Contexts
Event Impacts and Legacies
Marketing Foundations
Managing People and Organisations
Event Management
Accounting Skills for Managers
Socio-political Context of Management
Management Skills

Year 2
Positioning and Promoting Events
Event Sponsorship and Revenue
Innovation and Entrepreneurship
Introduction to Strategy
Professional Internship
Managing Human Resources
Innovation Lab
Law and Ethics for Managers

Year 3
Servicescape and Venue: design, operations and management
Management Research Skills
Select 12 credit points of options
Economics for Business
Event Creation Lab (Capstone)
Select 12 credit points of options

Tourism major

Year 1
Tourism in a Global Context
The Tourist Experience
Marketing Foundations
Managing People and Organisations
Managing Tourism Sectors
Accounting Skills for Managers
Socio-political Context of Management
Management Skills

Year 2
Reputation and Risk Management in Tourism
Tourism Promotion and Distribution
Innovation and Entrepreneurship
Introduction to Strategy
Professional Internship
Managing Human Resources
Innovation Lab
The International Sport Marketplace
Law and Ethics for Managers

Year 3
Developing Sustainable Destinations
Management Research Skills
Select 12 credit points of options
Economics for Business
Current Challenges in Tourism (Capstone)
Select 12 credit points of options

Sport Business major

Year 1
Sport and Society
Economics for Business
Marketing Foundations
Managing People and Organisations
The Organisation of Australian Sport
Accounting Skills for Managers
Socio-political Context of Management
Management Skills

Year 2
Managing Professional Sport
Olympic Games and Sport Mega-Events
Innovation and Entrepreneurship
Introduction to Strategy
Managing Human Resources
Innovation Lab
The International Sport Marketplace
Law and Ethics for Managers

Year 3
Management Research Skills
Professional Internship
Select 12 credit points of options
Sport Marketing and Media
Current Issues in Sport Business (Capstone)
Select 12 credit points of options

Tourism major with global exchange

Year 1
Tourism in a Global Context
The Tourist Experience
Marketing Foundations
Managing People and Organisations
Managing Tourism Sectors
Accounting Skills for Managers
Socio-political Context of Management
Management Skills

Year 2
Reputation and Risk Management in Tourism
Tourism Promotion and Distribution
Innovation and Entrepreneurship
Introduction to Strategy
Select 24 credit points of options

Year 3
Professional Internship
Innovation Lab
Developing Sustainable Destinations
Management Research Skills
Managing Human Resources
Law and Ethics for Managers
Economics for Business
Current Challenges in Tourism (Capstone)

Sport Business major with global exchange

Year 1
Sport and Society
Economics for Business
Marketing Foundations
Managing People and Organisations
The Organisation of Australian Sport
Accounting Skills for Managers
Socio-political Context of Management
Management Skills

Year 2
Managing Professional Sport
Olympic Games and Sport Mega-Events
Innovation and Entrepreneurship
Introduction to Strategy
Select 24 credit points of options

Year 3
Managing Human Resources
Innovation Lab
Management Research Skills
Professional Internship
The International Sport Marketplace
Law and Ethics for Managers
Sport Marketing and Media
Current Issues in Sport Business (Capstone)
Digital Creative Enterprise major

**Year 1**
- Marketing Foundations
- Managing People and Organisations
- Creative Industries in the Collaborative Economy
- Impossibilities to Possibilities
- Managing Risk and Opportunity
- Accounting Skills for Managers
- Socio-political Context of Management
- Management Skills

**Year 2**
- Innovation and Entrepreneurship
- Business Strategy and Scenario Planning
- Innovation and Entrepreneurship Studio A Technology, Methods and Creative Practice
- Managing Human Resources
- Innovation Lab
- Professional Internship
- Law and Ethics for Managers

**Year 3**
- Management Research Skills
- Select 18 credit points of options
- Economics for Business
- Digital Strategy and Governance
- Select 6 credit points of options

Career opportunities

Career options include digital and creative technologies entrepreneur, digital marketing director, digital strategist, digital channel management, digital content management, online community management, digital project management, digital marketing director, digital and creative industry business analyst, event and festival management, conference and meeting management, sport event management, event marketing, public relations and sponsorship management, venue management, event tourism planning, sport management and marketing, sport event management, venue and facility management, sports development, sport for development, sports administration, athlete development, sport media management, sport sponsorship and promotions, operations management, destination and marketing management in government agencies (local, state, national and international levels), private sector management, marketing positions in travel agencies, inbound and outbound wholesale tour operators, accommodation providers, attractions, airlines, cruise operators, land transport providers, and travel industry associations.

Business design and innovation skills provide graduates with an edge in their chosen field of study, maximising their potential for employment.

Honours degrees

Applicants must have completed a UTS recognised bachelor’s degree in a relevant discipline at an appropriate level.

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Sessions</th>
<th>Fees per session</th>
<th>Intake</th>
<th>Location</th>
<th>CRICOS code</th>
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<td>C09004</td>
<td>Bachelor of Business (Honours)</td>
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Combined degrees

<table>
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<th>Course code</th>
<th>Course name</th>
<th>Sessions</th>
<th>Fees per session</th>
<th>Intake</th>
<th>Location</th>
<th>CRICOS code</th>
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</thead>
<tbody>
<tr>
<td>C10169</td>
<td>Bachelor of Biotechnology Bachelor of Business</td>
<td>8</td>
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International Undergraduate Course Guide 2019
Communication

Creative writing | Digital and social media | Journalism | Media arts and production | Public communication | Social and political sciences | Music and sound design

IN 2017 THE UTS FACULTY OF ARTS AND SOCIAL SCIENCES HAD:

- 3830 undergraduate coursework students
- 350 international undergraduate coursework students
- 77 students go overseas on global exchange
PETER FRAY
Professor of Journalism Practice
“We want our students to graduate armed with the foundational skills of journalism and the transformational attributes in demand by an industry undergoing rapid change. That’s why we are building in new areas, such as entrepreneurial journalism, and expecting students to work closely with industry as they develop those skills and attributes. Some of our graduates will start their own businesses, and many will work across platforms and alongside software developers, audience and product teams. UTS is very mindful of the need to give its students authentic and meaningful experiences and to produce journalism with audiences in mind. That’s why we’ve built a new newsroom and why over recent years first the undergraduate and now postgraduate course have been reformed. This is not a time to sit still or hide behind a sandstone facade. This is a time to grasp the nettle of change and deliver the skills required in a highly disrupted media sector.”

CHRISTIAN CHELVAN, SINGAPORE
Bachelor of Communication (Journalism)
Account Manager at Sling and Stone PR
“I chose UTS because it offers one of the best journalism courses in Sydney, and because it’s in the heart of the city and easy to get to. The library was a great resource and the computer labs are well appointed – I spent many long nights using the big-screen iMacs in the Bon Marche building to edit video projects.

Today I’m an Account Manager at a public relations firm in Sydney. My background in journalism from UTS has been incredibly useful in my current role, as journalists and PR practitioners work hand in hand. The practical skills I learnt in my degree, from working under pressure to writing succinctly, have prepared me for working in a fast-paced environment.”

Head straight to the top. Join the ranks of one of the most respected Communication programs in the world. In the 2017 QS World University Subject Rankings, our communication programs were ranked in the Top 100.

Go beyond the classroom. Take on a professional internship course, which exposes you to 80 hours of industry experience - perfect for your LinkedIn profile.

Gain hands-on practical experience. Publish and broadcast your work from early on through UMag, Central News, Vertigo (student magazine), 2SER-FM radio, the annual UTS Writers’ Anthology and plenty of other mainstream and specialist media outlets.

Learn from the best. Study with award winning academics and practitioners who are highly acclaimed by industry. Our teaching staff are often still working in the field, where you can leverage off their expertise and connections to professional networks. You’ll get up to date knowledge, access to industry guest lectures and more!

Portfolio for your first interview. All of our communication courses have a major project or Capstone course which allows you to engage with a real issue facing a client which is developed through our industry links, and produce a portfolio as your final assignment - perfect for your first interview!

Get technical. Learn with top-tier production equipment including media production labs, video editing suites, sound and performance studios, and a purpose-built journalism lab - ensuring that you’re work-ready by the time you graduate.

Double the opportunities. Complete a double communication major and increase your employability in a rapidly changing industry.

Be part of our award-winning community. UTS Communication students and graduates regularly win national and international awards for journalism and filmmaking, including The Walkley Foundation Media Student Journalist of the Year Award (Australia’s pre-eminent Journalism award), Tropfest, SXSW, Berlin Film Festival, Sundance, Cannes, the Times BFI London Film Festival and the Sydney Film Festival.

Keen to find out what it’s like to be a Faculty of Arts in Social Sciences student?
Check out fasslane.uts.edu.au!

UTS students have been Tropfest Film finalists 10 times in the past 5 years.
Bachelor of Communication (Creative Writing)

Course description
Creative writing at UTS is a practice- and disciplinary-based program focusing on narrative, poetic, reading and literary theory. This degree develops creative writing across several genres, fosters independent and professional writing skills via workshop and lecture study, and engages critically with the broader cultural context in which creative writing is produced and read.

Students gain practical experience and theoretical engagement in the discipline of contemporary creative writing. They apply their skills across a number of key genres and narrative forms. An emphasis on critical skills leading towards the development of independent writing projects prepares students for professional practice.

Areas of study
Creative fiction writing, creative non-fiction writing, critical analysis, genre writing, narrative, poetry, screenwriting, textual theory.

Majors
Creative writing.

Course structure

Year 1
Citizenship and Communication
Fictional Forms
Select 16 credit points from the following:
Stream choices
Digital Literacies
Imagining the Real

Year 2
Communicating Difference
Narrative and Theory
Select 16 credit points from the following:
Second major
Electives
Genre Writing
Select 8 credit points from the following:
Cross-disciplinary electives

Year 3
Writing Laboratory
Select 16 credit points from the following:
Cross-disciplinary electives
Select 16 credit points from the following:
Second major
Electives
Creative Writing Project

Career opportunities
Career options include editor, publisher, scriptwriter, literary agent, communication coordinator, arts and cultural administrator, copywriter, feature writer, publications officer, freelance writer and book marketing coordinator.

Bachelor of Communication (Digital and Social Media)

Course description
The rapidly evolving digital communications industries require practitioners who are technologically literate, culturally sophisticated, innovative and resourceful. This degree develops imaginative, synthetic and analytical capacities, as well as practical skills across diverse technological platforms.

Studies focus on capacities for imaginative, synthetic and analytical thinking and communication, as well as practical skills in digital communication across diverse technological platforms and environments. Graduates are technologically literate, analytically sophisticated, innovative and resourceful leaders for the rapidly evolving digital communications industries.

Areas of study
Digital experience design, digital communities, digital technologies, platforms and futures, gamification, code as digital literacy, multimodal communication, digital publishing for apps, social media engagement.

Course structure

Year 1
Citizenhipt and Communication
Digital Communities
Digital Literacies
Engagement, Participation, Gamification
Select 16 credit points from the following:
Stream choices

Year 2
Communicating Difference
Digital Experience Design
Select 16 credit points from the following:
Second major
Electives
Code as Literacy, Commodity, Infrastructure
Select 8 credit points from the following:
Cross-disciplinary electives

Year 3
Digital Publishing for Apps
Digital Futures
Select 16 credit points from the following:
Cross-disciplinary electives
Select 16 credit points from the following:
Second major
Electives

Career opportunities
Career options include digital and social media coordinator, communications officer, digital channels strategist and social media manager.

*Entry requirements for the second major need to be met.
Bachelor of Communication (Journalism)

Course description

Journalism education at UTS is based on the principle that professional journalism is founded on the public’s right to know. This degree develops professional skills across all media and critically engages with the intellectual, ethical and political foundations of journalism. This course is designed to meet the essential practical skills and theoretical knowledge needed for a career in journalism. Students gain a crucial understanding of the role that journalists play in creating a democratic public sphere, providing a forum for debate and giving voice to diverse communities. The course equips students with advanced research, writing, reporting and analytical skills for print, television, video, radio and online media; and knowledge of the intellectual, ethical and political foundations of journalism.

Areas of study

Ethical practice, reflective practice, reporting online with sound and image, long-form storytelling across all media, social media, data journalism, publishing.

Majors

Journalism.

Course structure

Year 1
Citizenship and Communication
Stories from the Streets: Local Journalism, Social Media
Digital Literacies
Live Action: Multiplatform Journalism
Select 16 credit points from the following:
Stream choices

Year 2
Communicating Difference
Digging Deeper: Current Affairs and Longer-form Journalism
From Dirty Data to Vivid Visualisation
Select 8 credit points from the following:
Cross-disciplinary electives
Select 16 credit points from the following:
Second major
Electives

Year 3
The Hive: Collaborative Journalism
Industry Portfolio
Select 16 credit points from the following:
Cross-disciplinary electives
Select 16 credit points from the following:
Second major
Electives

Career opportunities

Career options include reporter, producer, publisher, editor, sub-editor, feature and freelance journalist, investigative journalist, media researcher, and print, broadcast and online media strategist.

Bachelor of Communication (Media Arts and Production)

Course description

This course prepares students for a wide range of roles in the media and cultural sectors. Students study the history, contemporary issues and theory of media and culture while developing advanced technical and conceptual skills in film, video, new media and sound. The professional areas in the degree include film, video, television, multimedia, sound, radio, performance and installation, and the interplay among these media forms.

This course explores the histories, theories, practices and challenges of creative media production. Working across multiple platforms, genres and media, students develop sophisticated production skills in video, sound and digital media, and enhance their creative innovation in these areas. Students are encouraged to evolve as creative producers of media projects throughout their studies, as well as deepen their understanding and technical proficiency across media production areas. By the end of the course, students have developed a professional portfolio of creative media work.

Areas of study

Exploring media arts, documentary, drama, aesthetics, media arts specialist modules, media arts project.

Majors

Media arts and production.
**Course structure**

### Year 1
- Citizenship and Communication
- Exploring Media Arts
- Digital Literacies
- Composing the Real

Select 16 credit points from the following:
- Stream choices

### Year 2
- Communicating Difference
  - Fictions
  - Aesthetics
  - Select 8 credit points from the following:
    - Cross-disciplinary electives
    - Second major
    - Electives

### Year 3
- Media Arts Specialist Modules
  - Media Arts Project
  - Select 16 credit points from the following:
    - Cross-disciplinary electives
    - Second major
    - Electives

**Career opportunities**

Career options include arts and cultural administrator, cinematographer, digital producer, director, documentary maker, editor, media artist, multimedia designer, producer, production manager, program commissioning editor, radio producer, researcher, scriptwriter, and sound designer.

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**Bachelor of Communication (Public Communication)**

### Course description

The critical and theoretical approach offered in this course develops ethical and responsible communication professionals. This course provides students with interdisciplinary knowledge of public communication processes and industries, and their social, economic and political contexts, as well as specialised expertise in public relations and advertising.

This course has a focus on professional communication careers that include public relations and advertising. Students explore the communication contexts—cultural, social and political—and for these practices. They develop their professional skills in campaign design and production, copywriting, media liaison and writing, research and evaluation, and organisational communication management. Assignments provide material for a portfolio after graduation.

### Areas of study

- Public communication, public relations, advertising, integrated communication.

### Majors

- Public communication.

### Course structure

#### Year 1
- Citizenship and Communication
  - The Ecology of Public Communication
  - Select 8 credit points from the following:
    - Stream choices
  - Digital Literacies
  - Select 8 credit points from the following:
    - Principles of Public Relations
    - Principles of Advertising
    - Select 8 credit points from the following:
    - Stream choices

#### Year 2
- Communicating Difference
  - Select 8 credit points from the following:
    - Strategic Public Relations
    - Advertising Campaign Practice
    - Select 8 credit points from the following:
    - Second major
    - Electives
  - Select 8 credit points from the following:
    - Media Writing Production
    - Brand Advertising Strategies
    - Select 8 credit points from the following:
    - Cross-disciplinary electives

#### Year 3
- Select 8 credit points from the following:
  - Organisational Communication
  - Professional Advertising Practice
  - Select 8 credit points from the following:
  - Cross-disciplinary electives
  - Select 8 credit points from the following:
  - Second major
  - Electives
  - Integrated Communication
  - Select 8 credit points from the following:
  - Cross-disciplinary electives
  - Select 8 credit points from the following:
  - Second major
  - Electives

### Professional recognition

Public Relations Institute of Australia; International Advertising Association

To be eligible for professional membership of the Public Relations Institute of Australia, students must successfully complete the two core subjects in the Public Communication major (MAJ10048) and the four subjects in the Public Relations stream (STM91123). To be eligible for professional membership of the International Advertising Association, students must successfully complete the four subjects in the Advertising stream (STM91124).

### Career opportunities

Career options include advertising account executive, advertising copywriter, communication strategist, community relations manager, marketing communication specialist, media liaison officer, media researcher, political media adviser, public relations consultant, publicity officer, social media strategist, and special events coordinator.

*Entry requirements for the second major need to be met.*
Bachelor of Communication (Social and Political Sciences)

Course description

Social and political sciences come to life in the contemporary world through communication - inter-personal and with the community, and more widely in society and the global public sphere. This cross-disciplinary course investigates society, explores current issues, and questions implications of change and progress in the global community. Students undertake professional studies as well as social, cultural and communication theory and practice so they can ask questions, research issues, develop advocacy skills and develop effective communication strategies.

Combining social, political, historical and philosophical perspectives on how societies work, the course provides students with practical skills in qualitative and quantitative social research methods. Students learn how to understand social issues and how to think through ways of making a difference; how to research, communicate and plan contributions to national and international debates. The course equips students with the knowledge and skills to be involved in diverse organisations engaging with social change.

Areas of study

Using theory from politics, sociology and political economy; analysing social and political change; using real-world social research and research methods; developing policy analysis and advocacy; communicating policy and producing online publications; project research with an outside organisation.

Majors

Social and political sciences.

Course structure

Year 1
Citizenship and Communication
Self and Society
Select 8 credit points from the following:
Stream choices
Digital Literacies
Politics, Ideologies and Beliefs
Select 8 credit points from the following:
Stream choices

Year 2
Communicating Difference
Economy, Society and Globalism
Select 8 credit points from the following:
Second major
Electives
Investigating for Change
Select 8 credit points from the following:
Cross-disciplinary electives
Select 8 credit points from the following:
Second major
Electives

Year 3
Intervening for Change
Select 8 credit points from the following:
Cross-disciplinary electives
Select 8 credit points from the following:
Second major
Electives
Professional Pathways Project
Select 8 credit points from the following:
Cross-disciplinary electives
Select 8 credit points from the following:
Second major
Electives

Career opportunities

Career options include advocacy in environmental, Indigenous, human rights and overseas development organisations, as well as trade unions; policy research, analysis and program management in government; management in social services and welfare, including women’s, migrant and Indigenous programs; and research in think tanks and academia.
Bachelor of Music and Sound Design

Course description
This course is designed to develop practitioners in music and sound design with a strong base of artistic, professional and theoretical skills. The UTS Bachelor of Music and Sound Design is the first of its kind to combine the domains of music, sound and screens (film, TV, internet, games, online). Subjects focus on developing real-world skills for the digital sound industry.

Students graduate with a portfolio of sound works demonstrating their creativity and professionalism. The course also involves input from leading industry figures, including sound designers, songwriters, producers, and other professionals from the creative industries.

The course appeals to students with an interest in popular music, sound design, creative arts, or interactive multimedia. It offers a contemporary music and sound design degree that focuses on the production and analysis of sound for various media, including interactive environments.

Areas of study
Popular music studies, sound design, audio production, screen sound, songwriting, music technology.

Course structure

<table>
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<tr>
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<th>Year 2</th>
<th>Year 3</th>
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Career opportunities
Examples include working in sound design and production across a diverse range of media, including popular music, film, television, advertising, animation, web, gaming, interactive digital media, and locational sound.

Other career options include sound designer, music supervisor, audio engineer, computer musician, music producer, new media artist, interactive media designer, and music business professional.

Honours degrees
Applicants must have completed a UTS recognised bachelor's degree in a relevant discipline at an appropriate level.

<table>
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<td>March</td>
<td>City</td>
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Combined degrees
All UTS Communication courses can be combined with International Studies. Only the March intake is available for these courses.

All UTS Communication courses, except the Bachelor of Music and Sound Design, can be combined with Law. The duration of these combined courses is 5 years and both the March and July intakes are available.

Some UTS Communication courses can be combined with the Bachelor of Creative Intelligence and Innovation. The duration of these combined courses is 4 years.

Refer to pages 92, 97 and 122 for more information.

# Bachelor of Arts (Honours) in Communication applicants must complete an information pack and submit a supplementary form before their application can be assessed by the faculty.

The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each.

Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.
Design, Architecture and Building

Animation | Architecture | Construction project management | Fashion and textiles | Landscape architecture | Photography | Interior architecture | Product design | Property economics | Visual communication

IN 2017 THE UTS FACULTY OF DESIGN, ARCHITECTURE AND BUILDING HAD:

- 3783 undergraduate coursework students
- 729 international undergraduate coursework students
- 44 students go overseas on global exchange
Shape tomorrow. At UTS, you will develop the creativity and critical thinking needed to build a better world, whatever your chosen path.

Join the world’s elite. World-leading means just that: not only has UTS Design been ranked as the top art and design school in NSW, we’re also ranked 28th in the world in the 2018 QS World University Rankings. A sign of our success is that we work with some of the world’s leading design-centric brands. Imagine working with Reidel, Google, Westfield and IKEA on bespoke projects.

Learn with leaders. Learn from inspiring experts, actively engaged in cutting-edge projects. Our lecturers don’t just lecture: they design international airports, manage complex construction sites and help create green spaces in major cities.

Connections that count. They say it’s ‘who you know’ that counts. Our industry partnerships can help you become known at companies such as Animal Logic, Google, Westpac and Westfield, working on real-world challenges.

Work the way industry wants. Your dream job doesn’t involve working alone, does it? We give you plenty of practice working in the teams you’ll be part of in professional industry. We also make sure you know how to collaborate with people from other disciplines or professions.

The whole world at your feet. There are opportunities for you everywhere in the world. It’s exciting but you need the know-how to seize them. We can connect you with global organisations, such as Gehry Partners and Bauhaus Dessau. Through our Global Studios you can also do high-intensity study trips overseas and get credit for them.

Graduate on top. Nearly every graduate manages to get that all important first job because something special has stood out in their CV. Perhaps yours will be a real-world project, a spectacular internship, a great portfolio or a reference from an industry leader. At UTS you’ll have the opportunity to gain any of these.

Design and Architecture jobs grew by 32% in Australia in 2015. That means industry needs lots of graduates – just like you.

IDA LARSSON, SWEDEN
Bachelor of Design in Architecture
“Studying architecture can be very challenging, but I’m proud of myself for being able to do it. We spend a lot of time in the computer labs studying on the iMacs. We also spend a lot of time in the labs, so you get to know a lot of people which is really good.

At UTS the teachers have great backgrounds and they know architecture really, really well. It’s also really great to see that UTS has a building designed by Frank Gehry. It shows how UTS is modern, and is keeping with the contemporary style of Sydney.”

ALLEND BAMERNI, NORWAY
Bachelor of Design in Architecture
“Architecture is a beautiful thing to study; it’s a mix between technology and art – a really nice combination of study. With architecture at UTS, you have a really compact community and you become close to your classmates because everyone is always studying in the computer labs. We have the opportunity to be in the computer labs 24/7. If we didn’t have this access it would be stressful to work from home because we need these computers with good programs.

The course is very practical. In one subject we had a real-life case study where we designed a new School of Architecture for UTS. We did the proposal of a new school for the real-life school that could be built in the future. The UTS Architecture lecturers and coordinators are really well known around the world. I can gain a lot from their experience and learn a lot from them too.”
Course description

The Bachelor of Construction Project Management delivers the management, technology and process skills required to work in a variety of well-paid roles across the full spectrum of construction projects. Students are taught a wide range of project management methodologies with a strong focus on applying these to real-world projects.

The emphasis on the utilisation of digital technologies, such as building information modelling, ensures that students understand the leading-edge advances that are being implemented in the industry. This knowledge can be applied in other industry sectors, providing further employment opportunities.

All students are required to complete a minimum of 200 days’ industry experience during the course, providing essential professional exposure. For the vast majority of students this entails paid employment in the industry with contractors and consultants (typically called cadetships). To broaden their personal and professional outlook, students can also choose electives or a sub-major in a range of disciplines outside construction project management including business accounting, environmental studies and Aboriginal studies.

Areas of study

Project management, sustainable development, construction site management, time/cost/quality management, risk and safety management, contract management, design management, business management, quantity surveying, building surveying, law, economics, construction technology, structures, services, estimating, cost planning and professional practice.

Sub-majors

Project management (construction finance/economics, architectural studies).

Course structure

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to the Built Environment</td>
<td>Structures</td>
<td>Risk and Safety Management</td>
<td>Property Accounting and Financial Management</td>
</tr>
<tr>
<td>Construction Technology 1</td>
<td>Site Establishment and Management</td>
<td>Design Team Management</td>
<td>Cost Management 4: Advanced Cost Management</td>
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<tr>
<td>Built Environment Law and Ethics</td>
<td>Digital Design and Construction 1</td>
<td>Select 6 credit points of electives</td>
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<td>Digital Built Environment</td>
<td>Cost Management 1: Measurement</td>
<td>Procurement and Contract Management</td>
<td>Human Resources and Communications Management</td>
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<tr>
<td>Materials Science</td>
<td>Construction Technology 3</td>
<td>Construction Technology 4</td>
<td>Professional Practice</td>
</tr>
<tr>
<td>Sustainable Urban Design and Development</td>
<td>Time Management</td>
<td>Cost Management 3: Cost Planning</td>
<td>Project Management Integration</td>
</tr>
<tr>
<td>Construction Technology 2</td>
<td>Integrated Services</td>
<td>Select 6 credit points of electives</td>
<td>Select 6 credit points of electives</td>
</tr>
</tbody>
</table>

Professional recognition

This course is accredited by the Project Management Institute (PMI); Royal Institution of Chartered Surveyors (RICS); Australian Institute of Quantity Surveyors (AIQS); Australian Institute of Building (AIB).

The course is also recognised by the Chartered Institute of Building (CIOB).

Career opportunities

Career opportunities include project manager, construction manager, construction economist, quantity surveyor, design manager, environmental manager, contract manager, site manager, construction programmer, cost engineer, estimator, facility manager and property developer.

Graduates have a wide range of employment opportunities and can work in both the private and public sectors for employers such as building proprietors, contractors, developers, government bodies and consultancy practices or be self-employed entrepreneurs. As key professionals in the construction industry, graduates work closely with other professional disciplines, industry groups and development authorities.
Bachelor of Design in Animation

Course description
The Bachelor of Design in Animation gives students with a passion for visual arts, drawing and storytelling the knowledge and hands-on experience required to create animation work that stands out in a global industry.

Graduates from this degree are image-makers, critical thinkers and storytellers in equal measure. They are equipped to be industry leaders with an ability to develop, pitch and defend ideas, creating original content for TV, film, advertising and other media. Students learn how to observe the world around them, drawing directly from life to gain inspiration for characters and stories. They discover how to think creatively and develop ideas through multiple stages, focusing on character development, narrative and performance. They also learn fundamental 2D and 3D animation skills to bring their stories to life.

At UTS, students also benefit from outstanding industry connections. Across the degree, students have the opportunity to work with live projects, such as VIVID, BEAMS Festival or collaborations with the Australia Piano Quartet. UTS also has strong relationships with leading industry players such as Flying Bark Productions and Animal Logic. The academic team understands that teamwork is at the heart of the animation industry. A studio-led approach creates a high-intensity environment where students learn how to work with their peers in a professional and collaborative atmosphere.

Areas of study
2D animation, 3D computer animation, character design, storyboarding, script writing and narrative, visual effects, design history.

Course structure

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Animation Studio: Foundations in Animation Language</td>
<td>Animation Studio: Narrative Investigations Context: 3D Modelling and Rigging Introduction</td>
<td>Context: Design for 3D and 2D Hybrid Animation</td>
</tr>
<tr>
<td>Context: 2D Animation Introduction</td>
<td>Select 6 credit points of electives 3D Modelling and Rigging Advanced Animation Studio: Narrative Experiments Select 6 credit points of electives</td>
<td>Animation Studio: Animation Practice Select 6 credit points of electives</td>
</tr>
<tr>
<td>Researching Design History</td>
<td>Select 6 credit points of electives</td>
<td>Context: Experimentations for 3D and 2D Hybrid Animation</td>
</tr>
<tr>
<td>Animation Studio: Foundations in Animation Design</td>
<td>Animation Studio: Narrative Experiments Select 6 credit points of electives</td>
<td>Animation Studio: Animation Industry Project Select 6 credit points of electives</td>
</tr>
<tr>
<td>Context: Introduction to 3D and 2D Hybrid Animation</td>
<td>Animation Studio: Narrative Experiments Select 6 credit points of electives</td>
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</tr>
<tr>
<td>Thinking Through Design</td>
<td>Animation Studio: Narrative Experiments Select 6 credit points of electives</td>
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</tr>
</tbody>
</table>

Career opportunities
This industry-focused course opens up animation careers in film, television and multimedia. Career options include director, animator, scriptwriter, concept artist, character designer, storyboard artist, producer, modeller, rigger, VFX artist, editor and compositor.

Bachelor of Design in Architecture

Course description
The Bachelor of Design in Architecture is the first of two degrees needed to become an architect. Students wishing to qualify for professional recognition as architects must also complete the Master of Architecture (CD4235). UTS architecture courses provide the skills and knowledge necessary to practise in the architectural profession and to be a future leader in the design of the built environment.

Through the Bachelor of Design in Architecture, students learn what it means to be an architect in a globalised world. This is achieved with a focus on how the profession can shape global cities through complex spatial thinking.

The first step is to deprogram preconceived ideas of architecture. Such an approach lays the foundations for creative spatial and material awareness, pushing the boundaries of traditional architectural practice.

UTS takes a hands-on approach to digital design and fabrication: students learn the software, material and model-making skills required to translate thought into form, right from the start. They have the opportunity to work on real-life projects and engage with stakeholders such as the Powerhouse Museum, ABC, Sydney Harbour Foreshore Authority (SHFA), and Sydney Olympic Park Authority.

Students are globally connected with opportunities to study in, work in or visit cities such as Berlin, Los Angeles, New York and Tokyo. They hear from international experts through guest lectures and are connected to global competitions and scholarships like the Costenino Design Challenge or Frank Gehry internship program.

UTS Architecture is a young and vibrant architectural school, working from one of Australia’s newest, leading-edge campuses. Its staff are actively engaged in the industry as practitioners and commentators, while its 24-hour studios are always abuzz with students who live and breathe architecture.

Areas of study
Design, architecture history and theory, communication, construction, sustainability, environmental control.
Bachelor of Design in Fashion and Textiles

Course description
The Bachelor of Design in Fashion and Textiles is an internationally recognised degree that gives students the start they need to pursue careers across all facets of the international fashion industry. The degree provides the conceptual knowledge and garment-making skills required to transform creative vision into compelling fashion statements.

While UTS recognises that a commercial framework is important, students are encouraged to become industry leaders through a focus on innovation, experimentation, individual expression and the future of fashion. They have full access to world-class textile and fashion workshops, working under the close supervision of expert staff. This experimental spirit is balanced by close industry ties. Students get the opportunity to work on real-world projects with brands such as Jets Swimwear, Think Positive, Australian Wool Innovation, Calcoup Knitwear and Swarovski.

UTS also understands that the fashion industry is as much about people as it is about garments: using studios and interdisciplinary subjects, students gain the communication and teamwork skills to develop, articulate and sell their creations to peers and industry. Graduates are recognised globally and many have gone on to work or study overseas, including fashion capitals London, New York, Tokyo and Milan. Leading international designers employing UTS graduates include Alexander McQueen, Kenzo, Abercrombie and Fitch, and Helmut Lang.

Career opportunities include women’swear designer, menswear designer, fashion producer, art/creative director, textile designer, print designer and fashion forecaster. Some graduates start their own business, while others work in an established company locally or with larger international brands. Graduates can also work in fashion media, including marketing, public relations and journalism roles.

Course structure

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thinking Fashion</td>
<td>Studio: Bespoke Fashion</td>
<td>Studio: Men's Collection</td>
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<tr>
<td>Studio: Foundations in Patternmaking and Construction 1</td>
<td>Studio: Fashion, Gender and Identity</td>
<td>Interdisciplinary Lab B</td>
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<tr>
<td>Studio: Fashion Illustration Fundamentals 1</td>
<td>Studio: Fashion Illustration Exploration</td>
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<td>Thinking Through Design</td>
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<td>Studio: Women's Collection</td>
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<tr>
<td>Fashion Cultures</td>
<td>Studio: Body Mapping</td>
<td>Fashion and Textiles Professional Practice</td>
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<td>Textile Lab: New Technologies</td>
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<td>Interdisciplinary Lab A</td>
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</tr>
<tr>
<td>Researching Design History</td>
<td>Select 6 credit points of electives</td>
<td></td>
</tr>
</tbody>
</table>

Professional recognition
The Bachelor of Design in Architecture followed by the Master of Architecture (C04235) is accredited for professional recognition by the NSW Architects Registration Board, the Australian Institute of Architects and the Commonwealth Association of Architects.

Career opportunities
Career opportunities include architect (after completion of the Master of Architecture), urban designer, project manager, administrator, policymaker, researcher, educator, journalist, and disaster relief and international aid professional.
Bachelor of Design in Interior Architecture

Course description

The Bachelor of Design in Interior Architecture helps students to re-imagine interior environments and public spaces in local and global contexts. With a strong emphasis on people's experiences of spatial design, this degree equips students with the critical skills required to interrogate and transcend the traditional boundaries of commercial interior design.

Students learn to engage with public and urban spaces alongside internal environments. Contemporary societies and city environments are changing rapidly, and this course promotes the ability to adapt to this change and shape the way people experience interior and public spaces.

Through a strong emphasis on practice and research, students develop the ability to think conceptually and understand the complex contexts in which they are designing. Through intensive collaborative design studios, students work to develop, discuss and debate ideas as they would in industry. With skills in analogue and digital design and fabrication, they are able to tackle real-world projects in the studios as well as through competitions with stakeholders such as the Art Gallery of NSW, Object Gallery, the City of Sydney and Zumtobel Lighting.

International connections and focus encourage recognition of UTS graduates abroad. UTS academics lead yearly international design studios in cities such as Berlin, Hong Kong, Athens, Prague and Venice. International guest lectures and workshops, as well as a wide range of exchange opportunities, enrich students’ learning and expose them to different cultures of design.

Areas of study

Experimentations with space and materials, inhabitation and human interactions to space, spaces and places of performance, industry practice and professional development.

Course structure

Year 1
- Design Studio: Foundations in Interior Architecture
- Context: Representation
- Thinking Through Design
- Researching Design History
- Design Studio: Inhabitations
- Context: Generative Methods

Year 2
- Design Studio: Performative Spaces
- Context: Performance
- Select 6 credit points of electives
- Context: Construction Technologies
- Select 6 credit points of electives
- Design Studio: Spatial Agency

Year 3
- Context: Interior Technologies
- Select 6 credit points of electives
- Design Studio: Industry
- Context: Synthesis
- Design Studio: Interior Architecture Major Project
- Select 6 credit points of electives

Professional recognition

Design Institute of Australia; International Federation of Interior Architects/Designers; Interior Design/Interior Architecture Educators Association (IDEA).

Career opportunities

Career options include commercial and residential interior design, adaptive re-use design, interactive and responsive environment design, museum and exhibition design, production design for film and television, theatre and performance design, and visual and spatial branding.

Bachelor of Design in Photography

Course description

In the Bachelor of Design in Photography, students learn how to create outstanding images linked to the sociocultural context that drives contemporary visual culture.

With the rapid evolution of the photographic medium due to digital and mobile technologies, images are situated in particular contexts, whether social, cultural or political. In design studios students learn how to recognise these contexts, and use and reinterpret them for their own creative work.

Students apply this understanding to the art of image making, under the guidance of expert staff, using world-standard equipment and facilities. These include darkrooms, specialist colour-managed computer labs and fully equipped photographic studios. Equipment is constantly upgraded to ensure that students only work with the best and latest devices.

Throughout their studies, students have the unique opportunity to collaborate with other disciplines across the university, including fashion, architecture and journalism. This enables them to both pursue specific interests and learn how to collaborate with others on projects and commissions.

Areas of study

Design thinking, design history, photography, image studies, innovation technologies, photojournalism, interaction design, theory, installation design.
Bachelor of Design in Product Design

Course description

The Bachelor of Design in Product Design prepares students for a career in the global product design industry, from boutique design practice or service design to large-scale industrial production and beyond. UTS believes a hands-on approach is fundamental for every aspiring designer. As such, the student’s starting point is the individual design and making of an object. Throughout their studies students learn how to design, prototype and test solutions using the latest technologies in the faculty’s digital and fabrication workshops.

Alongside a strong technical base, the degree applies the creative problem-solving required to design experiences that make a difference to everyday life, whether in developing economies or digital cultures. Central to this approach is an understanding of the relationships between objects, culture, economy, technology, business and human behaviour.

Career opportunities for graduates of the product design degree are expanding. Longstanding industrial design roles include working as an in-house designer in a manufacturing company or working as a design consultant. Graduates also work in emerging fields such as service and strategic design or digital interaction design, adapting advanced technologies for new experiences and networked environments. Integrated education also allows graduates to move beyond design and manage production, distribution and marketing of new products. Finally, the degree prepares graduates for further study in specialised fields such as transport design or associated professional disciplines.

Course structure

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inside Design</td>
<td>Product Engineering</td>
<td>Smart Design</td>
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<tr>
<td>Understanding Three-dimensional Form</td>
<td>Product Design and Sustainability</td>
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<tr>
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<td>Select 6 credit points from the following:</td>
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<tr>
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<td>Sub-major/Electives (DAB)</td>
<td>Advanced Manufacturing Technology</td>
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<tr>
<td>Integrated Product Design</td>
<td>Analogue and Digital UX</td>
<td>Product Design Professional Communication</td>
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<tr>
<td>Product Design Communication B</td>
<td>User-centred Design</td>
<td>Select 6 credit points from the following:</td>
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<tr>
<td>Informing Product Design</td>
<td>Select 6 credit points from the following:</td>
<td>Sub-major/Electives (DAB)</td>
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<tr>
<td>Thinking Through Design</td>
<td>Sub-major/Electives (DAB)</td>
<td>Product Design Major Studio</td>
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</table>

Career opportunities

Bachelor of Design in Visual Communication

Course description

In the Bachelor of Design in Visual Communication students learn how to create visual messages and experiences that communicate information and ideas across many media.

Students experiment with both traditional and emerging design practices, and develop a visual language that allows them to work across digital, physical and analogue media. This visual language is broad, encompassing typography, interaction and image-making.

This degree prepares students for the evolving nature of design by engaging with the social, technological and ecological context of design practice.

Graduates are industry-ready, thanks to their ability to articulate design practices and process, the degree’s internship program, and the curriculum’s emphasis on real-world problem solving.
Areas of study
Design thinking, typography, illustration, interactive design, web design, interaction design, branding, experiential design, moving image design, data visualisation, design for animation, strategic design, design history and emergent visual communication practices.

Course structure

**Year 1**
- VC Design Studio: Text and Image 1
- VC Project: Ways of Seeing
- Researching Design History
- VC Design Studio: Text and Image 2
- VC Project: Symbols and Systems
- Thinking Through Design

**Year 2**
- VC Design Studio: Narrative, Form and Time
- VC Project: Contexts of Visual Communication
- Select 6 credit points of electives
- VC Project: Typography in Context
- VC Project: Visualising Experience
- Interdisciplinary Lab A
- Select 6 credit points of electives

**Year 3**
- VC Design Studio: Design Practice
- Interdisciplinary Lab B
- Select 6 credit points of electives
- VC Design Studio: Visual Communication and Emergent Practices
- VC Project: Socially Responsive Design
- Select 6 credit points of electives

Professional recognition
Graduates are eligible for membership of the Design Institute of Australia (DIA) and the Australian Graphic Design Association (AGDA).

Career opportunities
There are many career options in a range of fields for graduates, such as digital media, publication designer, graphic designer, interactive media designer, web designer, branding specialist, art director, motion graphics designer, advertising, illustrator, and exhibition designer. Graduates are also equipped with the skills to become writers, researchers, editors and critics, and to apply design thinking in a non-design industry business.

Bachelor of Landscape Architecture (Honours)

**Course description**
The Bachelor of Landscape Architecture (Honours) is designed to develop skills in design, construction and management associated with natural and built landscapes.

This degree is for those who are passionate about sustainability, ecology, urban environments and design. Equipped with the applied knowledge of how successful public spaces can help bind complex city environments, students learn to create sustainable and cohesive places.

Through intensive design studio projects, students develop creative, practical and resilient design solutions that combine both art and science. This combination is essential in balancing environmental needs with those of contemporary society and culture. Students are poised to become design professionals who can creatively address key challenges of contemporary society including climate change, urban densification and biodiversity loss.

To teach the necessary design strategies, tools and methods, the degree focuses on global cities, notably in Europe and Asia. This focus is manifested in case studies, design and planning theory, technical analysis, and global study tours. A strong international focus is balanced by in-depth study of the local environment to ensure that ecological thinking is applied to city landscape design.

The honours program allows students to work at a higher level of academic study in a relevant area of interest. UTS offers graduates the opportunity to apply to the Master of Landscape Architecture (approved for offer from Autumn 2018).

**Areas of study**
Design of landscapes in urban and rural contexts, ecology, sustainability, graphic communications, hydrology, botany, professional practice, research.

**Course structure**

**Year 1**
- Landscape Architecture Studio 1: Forming
- Landscape History and Theory 1
- Architecture and Landscape Thinking
- Spatial Communications 1
- Landscape Architecture Studio 2: Making
- Landscape History and Theory 2
- Landscape Tectonics
- Spatial Communications 2

**Year 2**
- Landscape Architecture Studio 3: Grounding
- Territory
- Contemporary Issues in Landscape Architecture
- Select 6 credit points of electives
- Landscape Architecture Studio 4: Civic
- Urbanisms
- Landscape Ecologies
- Select 6 credit points of electives

**Year 3**
- Landscape Architecture Studio 5: Infrastructures
- Landscape Infrastructure
- Botany for Landscape Architecture
- Select 6 credit points of electives
- Landscape Architecture Studio 6: City
- Landscape Urbanism
- Landscape Architecture Technology
- Select 6 credit points of electives

**Year 4**
- Advanced Landscape Architectural Design Studio 1
- Architectural Practice: Finance and Project Management
- Architectural Practice: Research Cultures
- Advanced Landscape Architectural Design Studio 2
- Architectural Practice: Advocacy
- Landscape Architecture Honours Thesis Project
Professional recognition

The course has received preliminary accreditation by the Australian Institute of Landscape Architects. Full accreditation will be sought in late 2017 or early 2018 within six months of the first graduating cohort.

Career opportunities

This course equips graduates with critical thinking, creativity and the skills to engage across the expanded field of landscape design; take up leading roles in the design of all landscapes in urban and rural contexts; and pursue roles in land management and stewardship, architecture, and urban design.

Bachelor of Property Economics

Course description

For students thinking about a career in business, economics or property, the Bachelor of Property Economics provides the edge required to get started in a global industry.

In this degree students learn the specialist knowledge required to enter the property sector, with skills in property valuation, market analysis, investment and development. Their skill set is just as relevant locally as it is internationally.

This degree covers economic, legal and financial disciplines, giving students the flexibility to pursue a variety of career paths. This business knowledge is also transferrable, providing options for a transition to other sectors as careers develop.

UTS graduates are highly sought after and have excellent starting salaries: the property industry actively recruits property economics students. Most students are working in the industry by their third year of study.

This job-readiness results from UTS’s industry connections: the curriculum was developed in consultation with industry, guest lecturers come from industry, and students work with real-world projects such as Barangaroo, Central Park and Green Square.

The degree structures classes so that students do a mixture of individual and team-based work, mixing theory and practice. This means graduates seamlessly fit into team-based, workplace environments.

Areas of study

Economics, investment, property taxation, valuation, finance, urban design, property development, business management, built environment law.

Course structure

Year 1
- Built Environment Law and Ethics
- Built Environment Economics
- Construction and Development Process
- Property Valuation
- Built Environment Law and Professional Practice
- Microeconomics for Property
- Financial Analysis
- Property Accounting and Financial Management

Year 2
- Property Rights and Landlord Tenant Law
- Urban Economics
- Urban Planning Process
- Select 6 credit points of electives
- Property Management
- Property Market Research and Analysis
- Property Investment and Valuation
- Select 6 credit points of electives

Year 3
- Property Finance
- Statutory Valuation and Compensation
- Select one of the following:
  - Sustainable Construction and Development Management
  - Property Investment and Portfolio Management
- Select 6 credit points of electives
- Property and Political Economy
- Property Taxation
- Capstone Project: Property Development Analysis
- Select 6 credit points of electives

Professional recognition

Australian Property Institute (API); Royal Institution of Chartered Surveyors (RICS).

Career opportunities

Career options include property valuer, property and asset manager, property market analyst, property sales and acquisitions, property developer, funds manager, and corporate real estate adviser.
Honours degrees

Applicants must have completed a UTS recognised bachelor's degree in a relevant discipline at an appropriate level.

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Sessions</th>
<th>Fees per session</th>
<th>Intake</th>
<th>Location</th>
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Combined degrees

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<tr>
<th>Course code</th>
<th>Course name</th>
<th>Sessions</th>
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</table>
Education

Primary education | Secondary education | Kindergarten – Year 12 education (K-12)

In 2017 the UTS Faculty of Arts and Social Sciences had:

- 3830 undergraduate coursework students
- 350 international undergraduate coursework students
- 77 students go overseas on global exchange
Choose the best of the best. In the 2018 QS World University Subject Rankings, the UTS School of Education was ranked in the top 100 in Education.

With UTS you’ll join a cohort of students studying Australia’s leading undergraduate education course. Outstanding students can also apply for our honours degree.

Get amongst it. Not only will you develop the education knowledge sought by employers worldwide, you’ll spend 80 days in the classroom from the start of your degree, thanks to our intensive and closely supported professional experience program. Meaning you’ll have the confidence you need when you graduate to become a primary, secondary or K-12 teacher.

Expand your career choices. Choose to teach Kindergarten – Year 12 (K–12), or if you choose to major in Primary or Secondary teaching you can choose to specialise in niche areas like STEM, TESOL or Special Education to strengthen your job prospects upon graduation. Areas rapidly developing within the world of education, and areas that address current education shortages.

Feeling adventurous? If you’re studying the Primary major, you’ll also have the option to undertake an international professional experience program overseas in your third year of study.

In recent years students have travelled to China, Thailand, Indonesia, Samoa and South Korea with the program.

Note: The countries that are selected change from year to year.

Students undertaking the primary and secondary majors can also think global by combining their Education degree with a Bachelor of Arts in International Studies.

Lead the way. Our degree reflects the changing education landscape and the impacts of technology – we’ve integrated the study of new innovative teaching methods and the exploration of contemporary education issues (such as technology-enhanced learning and learning analytics) into our course content, so you can be sure that what you’re studying has relevance in the real world.

Learn from experts. Our teaching staff are dedicated experts within the world of education. Many are published authors and internationally recognised leaders in their field. Their expertise and close connection with professional and community networks give you access to guest lecturers and diverse organisations.

Prepare for success. Our on-campus education facilities are built in mind for pre-service teachers. These include Science Labs, a Music and Dance Studio, our Ross Milbourne Sports Hall, Visual Art rooms and even an Experimental Learning Studio! You can also take advantage of many collaborative learning spaces and student areas.

Keen to find out what it’s like to be a Faculty of Arts in Social Sciences student? Check out fasslane.uts.edu.au!

YU YAN TRAN, AUSTRALIA
Bachelor of Education in Primary Education and Bachelor of Arts in International Studies (Germany)
“My diverse practical experiences have meant that I have been able to develop myself as a teacher, right from the first session. I’m also very excited for my year abroad so that I can experience another culture and explore how I can integrate this into my teaching in Australia.”

DR DON CARTER
Senior Lecturer, Teacher Education Program
“The Teacher Education courses are well known for their outstanding graduate teachers. Students engage in the active learning process of linking theory and practice so that the knowledge and skills acquired in university subjects can be applied.”

All UTS courses periodically undergo review and changes may occur to ensure they meet industry standard, requirements and quality assurance. For the most up-to-date course information please visit the UTS Handbook (handbook.uts.edu.au).
Bachelor of Arts Bachelor of Education

Course description

This course prepares graduates for teaching in primary, secondary or K-12 settings. It is a practice-oriented course that aims to produce high-quality graduates through a program integrating the latest educational theory. Students continually develop teaching competence throughout the degree with a comprehensive and engaging professional experience program.

Most subjects are delivered in blended mode, incorporating the faculty’s new purpose-built classrooms and online learning spaces. Students study innovative teaching methods in the key learning areas and explore contemporary issues and applications, including technology-enhanced learning and learning analytics. Students selecting the primary or secondary major have a choice of sub-majors in which to add depth of study in fields of interest, including highly desirable specialisations such as STEM (science, technology, engineering and mathematics), special education and TESOL.

Note: This is a single award qualification.

Areas of study

Contextual studies of education, curriculum studies in all key learning areas taught in primary schools (creative arts; English; personal development, health and physical education; social and environmental education; mathematics; science and technology), professional experience, teaching method subjects for discipline areas taught in secondary schools, discipline studies.

Majors

Primary A major
Secondary A Social Sciences (Business Studies/Economics)
Secondary A Science
Secondary A Mathematics
Secondary A English
Secondary A Mathematics/Science
Secondary A Science/Mathematics

Indicative Course structure

Primary A major

Year 1
Beyond Culture: Diversity in Context
Digital Learning Futures
Learning and Development across the Lifespan
Issues in Indigenous Australian Education
Issues in Education: Local and Global Contexts
Select 18 credit points from the following:
  Primary Specialisation

Year 2
Professional Experience 1: Preparation for Teaching
English Education 1
Special Education: Inclusion
Personal Development, Health, Physical Education 1: Foundations of Teaching HPE
Professional Experience 2: Introduction to Classroom Management
Mathematics Education 1
Science and Technology Education 1
English Education 2

Year 3
Professional Experience 3: Effective Teaching and Learning
Mathematics Education 2
Science and Technology Education 2
Programming Assessment and Reporting
Professional Experience 4: Building Classroom Management
Social and Environmental Education 1
English Education 3
Personal Development, Health, Physical Education 2; Curriculum and Pedagogy in HPE

Year 4
Professional Experience 5: Teacher as Researcher
Social and Environmental Education 2
Creative Arts 2: Music, Movement and Dance
Creative Arts 1: Visual Art
Professional Experience 6: Internship and Beyond
Mathematics Education 3
Select 12 credit points from the following:
  Primary specialisation

Secondary A major, Social Sciences

Year 1
Beyond Culture: Diversity in Context
Digital Learning Futures
Select 24 credit points from the following:
  Business Studies/Economics
  Learning and Development across the Lifespan
  Issues in Indigenous Australian Education

Year 2
Select 6 credit points from the following:
  Business Studies/Economics
  Professional Experience 1: Preparation for Teaching
  Social Sciences Teaching Methods 1
  Special Education: Inclusion
  Professional Experience 2: Introduction to Classroom Management
  Literacy and Numeracy Across the Curriculum
  Social Sciences Teaching Methods 2
  Issues in Education: Local and Global Contexts

Year 3
Professional Experience 3: Effective Teaching and Learning
Business Studies/Economics Teaching Methods 1
Select 18 credit points from the following:
  Business Studies/Economics
  Professional Experience 4: Building Classroom Management
  Select 12 credit points from the following:
    Sub-major choice

Year 4
Select 12 credit points from the following:
  Business Studies/Economics
  Professional Experience 5: Teacher as Researcher
  Professional Experience 6: Internship and Beyond
  Business Studies/Economics Teaching Methods 2
  Select 12 credit points from the following:
    Sub-major choice
### Secondary A major, Science

**Year 1**
- Beyond Culture: Diversity in Context
- Digital Learning Futures
- Select 24 credit points from the following:
  - Science
  - Learning and Development across the Lifespan
  - Issues in Indigenous Australian Education

**Year 2**
- Select 6 credit points from the following:
  - Science
  - Professional Experience 1: Preparation for Teaching
  - Science Teaching Methods 1
  - Special Education: Inclusion
  - Professional Experience 2: Introduction to Classroom Management
  - Literacy and Numeracy Across the Curriculum
  - Science Teaching Methods 2
  - Issues in Education: Local and Global Contexts

**Year 3**
- Professional Experience 3: Effective Teaching and Learning
- Science Teaching Methods 3
- Select 18 credit points from the following:
  - Science
  - Professional Experience 4: Building Classroom Management
  - Select 12 credit points from the following:
    - Electives

**Year 4**
- Select 12 credit points from the following:
  - Science
  - Professional Experience 5: Teacher as Researcher
  - Professional Experience 6: Internship and Beyond
  - Science Teaching Methods 4
  - Select 18 credit points from the following:
    - Sub-major / Electives

### Secondary A major, Mathematics

**Year 1**
- Introduction to Linear Dynamical Systems
- Digital Learning Futures
- Beyond Culture: Diversity in Context
- Introduction to Statistics
- Select 12 credit points from the following:
  - Mathematics
  - Learning and Development across the Lifespan
  - Issues in Indigenous Australian Education

**Year 2**
- Select 6 credit points from the following:
  - Mathematics
  - Professional Experience 1: Preparation for Teaching
  - Mathematics Teaching Methods 1
  - Special Education: Inclusion
  - Professional Experience 2: Introduction to Classroom Management
  - Literacy and Numeracy Across the Curriculum
  - Mathematics Teaching Methods 2
  - Issues in Education: Local and Global Contexts

**Year 3**
- Professional Experience 3: Effective Teaching and Learning
- Mathematics Teaching Methods 3
- Select 18 credit points from the following:
  - Mathematics
  - Professional Experience 4: Building Classroom Management
  - Select 12 credit points from the following:
    - Sub-major / Electives

**Year 4**
- Select 12 credit points from the following:
  - Mathematics
  - Professional Experience 5: Teacher as Researcher
  - Professional Experience 6: Internship and Beyond
  - Mathematics Teaching Methods 4
  - Select 12 credit points from the following:
    - Sub-major / Electives

### Secondary A major, English

**Year 1**
- Beyond Culture: Diversity in Context
- Digital Learning Futures
- Select 24 credit points from the following:
  - English
  - Learning and Development across the Lifespan
  - Issues in Indigenous Australian Education

**Year 2**
- Select 6 credit points from the following:
  - English
  - Professional Experience 1: Preparation for Teaching
  - English Teaching Methods 1
  - Special Education: Inclusion
  - Professional Experience 2: Introduction to Classroom Management
  - Literacy and Numeracy Across the Curriculum
  - English Teaching Methods 2
  - Issues in Education: Local and Global Contexts

**Year 3**
- Professional Experience 3: Effective Teaching and Learning
- English Teaching Methods 3
- Select 18 credit points from the following:
  - English
  - Professional Experience 4: Building Classroom Management
  - Select 12 credit points from the following:
    - Sub-major / Electives

**Year 4**
- Select 12 credit points from the following:
  - English
  - Professional Experience 5: Teacher as Researcher
  - Professional Experience 6: Internship and Beyond
  - English Teaching Methods 4
  - Select 18 credit points from the following:
    - Sub-major / Electives

The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each.

Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.
Secondary A Major, Mathematics/Science

Year 1
Beyond Culture: Diversity in Context
Digital Learning Futures
Introduction to Linear Dynamical Systems
Select 12 credit points from the following:
Mathematics/Science
Introduction to Statistics
Learning and Development across the Lifespan
Issues in Indigenous Australian Education

Year 2
Select 6 credit points from the following:
Mathematics/Science
Professional Experience 1: Preparation for Teaching
Mathematics Teaching Methods 1
Special Education: Inclusion
Professional Experience 2: Introduction to Classroom Management
Literacy and Numeracy Across the Curriculum
Mathematics Teaching Methods 2
Issues in Education: Local and Global Contexts

Year 3
Professional Experience 3: Effective Teaching and Learning
Science Teaching Methods 1
Mathematics Teaching Methods 3
Select 6 credit points from the following:
Mathematics/Science
Professional Experience 4: Building Classroom Management
Select 18 credit points from the following:
Sub-major/Electives

Year 4
Select 6 credit points from the following:
Mathematics/Science
Science Teaching Methods 2
Professional Experience 5: Teacher as Researcher
Professional Experience 6: Internship and Beyond
Mathematics Teaching Methods 4
Select 18 credit points from the following:
Sub-major/Electives

Secondary A Major, Science/Mathematics

Year 1
Beyond Culture: Diversity in Context
Digital Learning Futures
Introduction to Linear Dynamical Systems
Select 12 credit points from the following:
Science/Mathematics
Introduction to Statistics
Learning and Development across the Lifespan
Issues in Indigenous Australian Education

Year 2
Select 6 credit points from the following:
Science/Mathematics
Professional Experience 1: Preparation for Teaching
Science Teaching Methods 1
Special Education: Inclusion
Professional Experience 2: Introduction to Classroom Management
Literacy and Numeracy Across the Curriculum
Science Teaching Methods 2
Issues in Education: Local and Global Contexts

Year 3
Professional Experience 3: Effective Teaching and Learning
Mathematics Teaching Methods 1
Science Teaching Methods 3
Select 6 credit points from the following:
Science/Mathematics
Professional Experience 4: Building Classroom Management
Select 18 credit points from the following:
Sub-major/Electives

Year 4
Select 6 credit points from the following:
Science/Mathematics
Mathematics Teaching Methods 2
Professional Experience 5: Teacher as Researcher
Professional Experience 6: Internship and Beyond
Science Teaching Methods 4
Select 18 credit points from the following:
Sub-major/Electives

Career opportunities
Career options include primary teaching (kindergarten to year 6) or secondary teaching (years 7–12) in English, mathematics, science, or social science (business studies/economics) in a public or private school, locally or internationally. To gain employment as a teacher in NSW schools, all students must meet the requirements of the NESA, including literacy and numeracy proficiency.

Professional recognition
This course is recognised by the NSW Department of Education and Training, Independent Schools Association, Catholic Education Office, and is also recognised interstate and internationally. This course has been approved by the NSW Education Standards Authority (NESA) for professional accreditation.

Combined degrees

<table>
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<th>Course code</th>
<th>Course name</th>
<th>Sessions</th>
<th>Fees per session</th>
<th>Intake</th>
<th>Location</th>
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Engineering

Biomedical | Civil | Civil (construction) | Civil (structures) | Civil and environmental | Data | Electrical | Electronic | Mechanical | Mechatronic | Mechanical and mechatronic | Software

In 2017 the UTS Faculty of Engineering & IT had:

- 6713 undergraduate coursework students
- 1585 international undergraduate coursework students
- 48 students go overseas on global exchange
Our difference. Nothing will prepare you better than real industry experience. That’s why we offer hands-on, practice-based learning.

A step ahead. Theory is great, but hands-on experience sets you apart. Our industry partnerships enable us to offer you working knowledge throughout your degree. And you’ll study in world-class, purpose-built teaching spaces and laboratories.

Connections that count. Would access to more than 1,000 companies help your career to boom? Of course it would. UTS also has its own internship team to help you turn access into valuable work experience.

The world is watching. Put yourself in the right place from day one. We may be young, but we’re making our mark quickly. Among universities under the age of 50, UTS is already the No.1 ranked university in Australia and No.10 in the world. And you couldn’t study in a better location. 40% of Australia’s creative industry head offices call our neighbourhood home.

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.

UTS has a five-year technology partnership with Nokia working on advanced engineering projects that support the development of future network services for technological challenges faced by service providers and enterprises. UTS links with major industrial innovators to deliver outcomes that translate into viable products and solutions, leveraging advanced technologies.

The Engineering International Undergraduate Excellence Scholarships are valued at A$5000 and are offered to international students commencing either the Bachelor of Engineering (Honours) or the Bachelor of Engineering (Honours), Diploma in Professional Engineering Practice, and who meet the eligibility criteria. For further information visit uts.edu.au/scholarships

MOHAMMED CHOWDRY, BANGLADESH
Bachelor of Engineering (Honours)
“As part of my degree, I also completed a 12-week internship. I did my work experience with an engineering consulting firm where I was given the role of drafting designs for my senior managers. In this role, I could implement what I’d learnt in my subjects, like engineering project management. That was a really good experience because I was exposed to industry and that was thanks to UTS.”

PROFESSOR FRANCESCA IACOPI
Professor, School of Electrical and Data Engineering
Francesca received her MSc in Physics from “La Sapienza” University, Rome, Italy (1996), and her PhD in E.E./Materials Science from the Katholieke Universiteit Leuven, Belgium (2004).

Professor Iacopi is a Materials Scientist and Nanoelectronics expert with nearly 20 years’ experience in semiconductor Industry and Academia. She achieved international reputation for her contributions to the ITRS roadmap of materials and processes for advanced semiconductor technologies across the area of devices, interconnects and packaging.

MIKHAIL (MICHAEL) FEDULOV, RUSSIAN FEDERATION
Bachelor of Engineering (Honours) Diploma in Information Technology Professional Practice, Software Engineering

“UTS was always at the forefront of my mind when I was finishing my HSC (Certificate 4 in tertiary preparation TAFE bridging course). Towards the final exams, I had an opportunity to visit UTS Open Day and soon after I decided that is the place to do my secondary education. What stood out to me the most was that the people and the atmosphere were so welcoming which complimented UTS’s cutting-edge infrastructure. Every day UTS keeps proving how interactive and practical education should be, which is an enormous advantage that only UTS students have. To me UTS is not just a uni, it’s an innovation hub located conveniently in the heart of the city with easy access to public transport and Sydney’s infrastructure. It’s an extraordinary place to study!”
Bachelor of Engineering (Honours)

Course description

This course is identical to the Bachelor of Engineering (Honours) Diploma in Professional Engineering Practice (C09067), with the exception that there is no Diploma in Professional Engineering Practice requirement.

This program is a comprehensive preparation for careers in the professional practice of engineering. Students learn to deal with complex systems and manage large-scale projects using the most appropriate emerging technologies.

Areas of study

Engineering, research and analysis, project management, sustainability, problem solving methodologies, engineering communication, engineering design process and analysis, accounting fundamentals, fundamentals of mechanics, thermal physics, electricity, fluids, waves and optics, mathematical modelling, calculus, linear algebra, statistics and 3D geometry.

Majors

Biomedical, civil, civil and environmental, data, electrical, electronic, mechanical, mechanical and mechatronic, mechatronic, software.

Course structure

Biomedical Engineering major

Year 1
Mathematical Modelling 1
Engineering Communication
Physical Modelling
Introduction to Electrical and Electronic Engineering
Mathematical Modelling 2
Programming Fundamentals
Introduction to Biomedical Engineering
Human Anatomy and Physiology

Year 2
Design and Innovation Fundamentals
Select 6 credit points from the following:
  Signal Theory
  Database Principles
  Select 6 credit points from the following:
  Physiological Systems
  Chemistry 1
  Fundamentals of Biomedical Engineering Studio A
  Engineering Practice Preparation 1
  Engineering Economics and Finance
  Select 6 credit points from the following:
  Electronics and Circuits
  Introduction to Data Analytics
  Cell Biology and Genetics
  Biomedical Industry Frameworks

Year 3
Engineering Project Management Fundamentals of Biomedical Engineering Studio B
Medical Devices and Diagnostics Engineering Work Experience
Entrepreneurship and Commercialisation
Select 18 credit points from the following:
  Biomedical Engineering thread choice
  Select 6 credit points of options

Year 4
Engineering Workplace Reflection Engineering Research Preparation Engineering Capstone
Select 18 credit points from the following:
  Biomedical Engineering thread choice
  Select 18 credit points of options

Civil Engineering major

Year 1
Mathematical Modelling 1
Engineering Communication
Physical Modelling
Introduction to Civil and Environmental Engineering
Mathematical Modelling 2
Engineering Mechanics
Surveying
Chemistry and Materials Science

Year 2
Design and Innovation Fundamentals
Engineering Computations
Mechanics of Solids
Construction
Engineering Practice Preparation 1
Engineering Economics and Finance
Soil Behaviour
Structural Analysis
Construction Materials

Year 3
Engineering Project Management
Concrete Design
Fluid Mechanics
Road and Transport Engineering
Entrepreneurship and Commercialisation
Environmental and Sanitation Engineering
Geotechnical Engineering
Select 6 credit points of options
Engineering Work Experience

Year 4
Engineering Workplace Reflection
Engineering Research Preparation
Steel and Timber Design
Computer Modelling and Design
Engineering Capstone
Hydraulics and Hydrology
Select 18 credit points of options
Civil Engineering major, Construction specialisation

Year 1
- Mathematical Modelling 1
- Engineering Communication
- Physical Modelling
- Introduction to Civil and Environmental Engineering
- Mathematical Modelling 2
- Engineering Mechanics
- Surveying
- Chemistry and Materials Science

Year 2
- Design and Innovation Fundamentals
- Engineering Computations
- Mechanics of Solids
- Construction
- Engineering Practice Preparation 1
- Engineering Economics and Finance
- Soil Behaviour
- Structural Analysis
- Construction Materials

Civil Engineering major, Structures specialisation

Year 1
- Mathematical Modelling 1
- Engineering Communication
- Physical Modelling
- Introduction to Civil and Environmental Engineering
- Mathematical Modelling 2
- Engineering Mechanics
- Surveying
- Chemistry and Materials Science

Year 2
- Design and Innovation Fundamentals
- Engineering Computations
- Mechanics of Solids
- Construction
- Engineering Practice Preparation 1
- Engineering Economics and Finance
- Soil Behaviour
- Structural Analysis
- Construction Materials

Civil and Environmental Engineering major

Year 1
- Mathematical Modelling 1
- Physical Modelling
- Engineering Communication
- Introduction to Civil and Environmental Engineering
- Mathematical Modelling 2
- Engineering Mechanics
- Chemistry 1
- Surveying

Year 2
- Design and Innovation Fundamentals
- Mechanics of Solids
- Water Supply and Wastewater Engineering
- Engineering Computations
- Engineering Practice Preparation 1
- Engineering Economics and Finance
- Construction Materials
- Fluid Mechanics
- Principles of Environmental Engineering

Year 3
- Engineering Project Management
- Concrete Design
- Fluid Mechanics
- Construction Technology 3
- Geotechnical Engineering
- Construction Project Management Principles
- Engineering Work Experience
- Select 12 credit points of options

Year 4
- Engineering Workplace Reflection
- Engineering Research Preparation
- Advanced Engineering Computing
- Steel and Timber Design
- Engineering Capstone
- Computer Modelling and Design
- Select 12 credit points of options
- Hydraulics and Hydrology
- Engineering Capstone
- Select 6 credit points from the following:
  - Environmental and Sanitation Engineering
  - Road and Transport Engineering
- Select 12 credit points of options

Year 3
- Engineering Project Management
- Structural Analysis
- Pollution Control and Waste Management
- Hydraulics and Hydrology
- Entrepreneurship and Commercialisation
- Soil Behaviour
- Environmental Chemical Processes
- Concrete Design
- Engineering Work Experience

Year 4
- Engineering Workplace Reflection
- Engineering Research Preparation
- Geotechnical Engineering
- Environmental Planning and Law
- Road and Transport Engineering
- Engineering Capstone
- Renewable Energy Technology
- Water and Environmental Design
- Steel and Timber Design

The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6–8 credit points each.

Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.
### Electrical Engineering major

**Year 1**
- Mathematical Modelling 1
- Engineering Communication
- Introduction to Electrical and Electronic Engineering
- Physical Modelling
- Mathematical Modelling 2
- Introductory Digital Systems
- Fundamentals of Electrical Engineering
- Electronics and Circuits

**Year 2**
- Design and Innovation
  - Fundamentals
  - Fundamentals of C Programming
  - Circuit Analysis
  - Advanced Mathematics and Physics
  - Engineering Practice Preparation
  - Engineering Economics and Finance
  - Electromechanical Automation
  - Signals and Systems
  - Select 6 credit points of options

**Year 3**
- Engineering Project Management
- Engineering Work Experience
- Entrepreneurship and Commercialisation
- Select 6 credit points from the following:
  - Advanced Control
  - Embedded Software
  - Power Electronics and Drives
  - Power Systems Analysis and Design
- Engineering Capstone
  - Select 18 credit points from the following:
  - Advanced Robotics
  - Real-time Operating Systems
  - Renewable Energy Systems
  - Power Systems Operation and Protection

**Year 4**
- Engineering Workplace Reflection
- Engineering Research Preparation
- Professional Studio B
- Engineering Work Experience
- Select 24 credit points of options

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### Electronic Engineering major

**Year 1**
- Mathematical Modelling 1
- Engineering Communication
- Introduction to Electrical and Electronic Engineering
- Fundamentals of C Programming
- Mathematical Modelling 2
- Introductory Digital Systems
- Integrated Electronic Systems Design
- Fundamentals Studio A

**Year 2**
- Engineering Practice Preparation
  - Physical Modelling
  - Sensing, Actuation and Control
  - Electronics and Circuits
  - Fundamentals Studio B
  - Design and Innovation
  - Fundamentals
  - IoT Components and Technologies
  - Applications Studio A
  - Internet of Things (Systems and Devices)
  - Internet of Things (Software)
  - Communication Systems
  - Machine Vision

**Year 3**
- Engineering Economics and Finance
- Electronic Analysis and Design
- Applications Studio B
- Engineering Project Management
- Electronic Engineering Design
- Professional Studio A
- Engineering Work Experience
- Select 12 credit points from the following:
  - Internet of Things (Systems and Devices)
  - Internet of Things (Software)
  - Communication Systems
  - Machine Vision

**Year 4**
- Entrepreneurship and Commercialisation
- Engineering Research Preparation
- Professional Studio B
- Engineering Workplace Reflection
- Engineering Capstone
- Select 24 credit points of options

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### Mechanical Engineering major

**Year 1**
- Mathematical Modelling 1
- Engineering Communication
- Introduction to Mechanical and Mechatronic Engineering
- Physical Modelling
- Mathematical Modelling 2
- Introduction to Electrical and Electronic Engineering
- Fundamentals of Mechanical Engineering
- Chemistry and Materials Science

**Year 2**
- Engineering Practice Preparation 1
  - Fundamentals
  - Manufacturing Engineering
  - Mechanics of Solids
  - Engineering Computations
  - Mechanical Design 1
  - Machine Dynamics
  - Fluid Mechanics
  - Strength of Engineering Materials

**Year 3**
- Engineering Economics and Finance
  - Mechanical Design 2
  - Thermodynamics
  - Dynamics and Control
  - Engineering Project Management
  - Advanced Manufacturing
  - Mechanical Vibration and Measurement
  - Heat Transfer
  - Engineering Work Experience

**Year 4**
- Engineering Workplace Reflection
- Mechanical and Mechatronic Design
- Engineering Research Preparation
- Entrepreneurship and Commercialisation
- Engineering Capstone
- Select 24 credit points of options

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Mechanical and Mechatronic Engineering major

Year 1
- Mathematical Modelling 1
- Engineering Communication
- Introduction to Mechanical and Mechatronic Engineering
- Physical Modelling
- Mathematical Modelling 2
- Introduction to Electrical and Electronic Engineering
- Fundamentals of Mechanical Engineering
- Manufacturing Engineering

Year 2
- Engineering Practice Preparation 1
- Design and Innovation Fundamentals
- Electronics and Circuits
- Mechanics of Solids
- Machine Dynamics
- Mechanical Design 1
- Mechatronics 1
- Strength of Engineering Materials
- Fluid Mechanics

Year 3
- Mechatronics 2
- Thermodynamics
- Dynamics and Control
- Engineering Economics and Finance
- Engineering Project Management
- Programming for Mechatronic Systems
- Mechanical Design 2
- Electromechanical Automation
- Engineering Work Experience

Year 4
- Engineering Workplace Reflection
- Engineering Research Preparation
- Robotics
- Sensors and Control for Mechatronic Systems
- Heat Transfer
- Entrepreneurship and Commercialisation
- Engineering Capstone
- Mechanical and Mechatronic Design
- Select 6 credit points of options

Mechatronic Engineering major

Year 1
- Mathematical Modelling 1
- Engineering Communication
- Introduction to Mechanical and Mechatronic Engineering
- Physical Modelling
- Mathematical Modelling 2
- Introduction to Electrical and Electronic Engineering
- Fundamentals of Mechanical Engineering
- Manufacturing Engineering

Year 2
- Engineering Practice Preparation 1
- Design and Innovation Fundamentals
- Electronics and Circuits
- Mechanics of Solids
- Machine Dynamics
- Mechanical Design 1
- Mechatronics 1
- Strength of Engineering Materials
- Thermodynamics

Year 3
- Mechatronics 2
- Mechanical Design 2
- Dynamics and Control
- Engineering Economics and Finance
- Engineering Project Management
- Programming for Mechatronic Systems
- Sensors and Control for Mechatronic Systems
- Electromechanical Automation
- Engineering Work Experience

Year 4
- Engineering Workplace Reflection
- Engineering Research Preparation
- Robotics
- Entrepreneurship and Commercialisation
- Engineering Capstone
- Select 24 credit points of options

Data Engineering major

Year 1
- Mathematical Modelling 1
- Engineering Communication
- Introduction to Data Engineering
- Fundamentals of C Programming
- Mathematical Modelling 2
- Network Fundamentals
- Introduction to Data Analytics
- Fundamentals Studio A

Year 2
- Engineering Practice Preparation 1
- Physical Modelling
- Sensing, Actuation and Control
- Information and Signals
- Fundamentals Studio B
- Design and Innovation Fundamentals
- Data Systems
- Applications Studio A
- Select 6 credit points from the following:
  - Technical subject choice (Data Engineering)

Year 3
- Engineering Economics and Finance
- Data Engineering Design
- Applications Studio B
- Engineering Project Management
- Interrogating Technology: Sustainability, Environment and Social Change
- Professional Studio A
- Engineering Work Experience
- Select 12 credit points from the following:
  - Technical subject choice (Data Engineering)

Year 4
- Entrepreneurship and Commercialisation
- Engineering Research Preparation
- Professional Studio B
- Engineering Workplace Reflection
- Engineering Capstone
- Select 24 credit points of options

Software Engineering major

Year 1
- Mathematical Modelling 1
- Engineering Communication
- Applications Programming
- Business Requirements Modelling
- Mathematical Modelling 2
- Sensing, Actuation and Control
- Systems Testing and Quality Management
- Database Fundamentals

Year 2
- Engineering Practice Preparation 1
- Physical Modelling
- Data Structures and Algorithms
- Select 6 credit points of options
- Software Engineering Studio 1A
- Design and Innovation Fundamentals
- Information System Development Methodologies
- Software Engineering Studio 1B
- Select 6 credit points from the following:
  - Technical subject choice (Software Engineering)

Year 3
- Engineering Economics and Finance
- Software Engineering Studio 2A
- Select 6 credit points of options
- Engineering Work Experience
- Engineering Project Management
- Software Engineering Studio 2B
- Software Architecture
- Select 12 credit points from the following:
  - Technical subject choice (Software Engineering)

Year 4
- Engineering Research Preparation
- Entrepreneurship and Commercialisation
- Engineering Workplace Reflection
- Software Engineering Studio 3A
- Select 6 credit points from the following:
  - Technical subject choice (Software Engineering)
  - Engineering Capstone
  - Software Engineering Studio 3B
  - Select 12 credit points of options
Engineering

Professional recognition

The Bachelor of Engineering (Honours) is accredited by Engineers Australia at the Graduate Professional Engineer level. Under the Washington Accord the degree is internationally recognised by the following countries: Canada, China, Chinese Taipei, Hong Kong China, India, Ireland, Japan, Korea, Malaysia, New Zealand, Russia, Singapore, South Africa, Sri Lanka, Turkey, the United Kingdom, and the United States.

Career opportunities

Career options depend on the major chosen.

Bachelor of Engineering (Honours) Diploma in Professional Engineering Practice

Course description

This program is a comprehensive preparation for careers in the professional practice of engineering. Students learn to deal with complex systems and manage large-scale projects using the most appropriate emerging technologies.

The course offers an authentic, professionally focused and practice-based education program with two sessions of internship (normally paid) in a real workplace setting. A number of areas of study are available with explicit specialisations. For example, Civil Engineering is available with specialisations in Structures and Construction. Students can also focus on or broaden their studies by completing electives. By appropriate choice of electives, students can gain knowledge in a second engineering discipline, obtain a sub-major in a different field or study postgraduate degree subjects and apply for credit towards an engineering master’s degree. The concept has been strongly endorsed in wide-ranging industry consultations. Interaction between work experience and academic curriculum is very strong, giving the program a depth that no other full-time academic course can match.

Areas of study

Engineering, research and analysis, project management, sustainability, problem solving methodologies, engineering communication, engineering design process and analysis, accounting fundamentals, fundamentals of mechanics, thermal physics, electricity, fluids, waves and optics, mathematical modelling, calculus, linear algebra, statistics and 3D geometry.

Majors

Biomedical, civil, civil and environmental, data, electrical, electronic, mechanical, mechanical and mechatronic, mechatronic, software.

Course structure

Biomedical Engineering major

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
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<tbody>
<tr>
<td>Engineering Communication</td>
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<td>Engineering Practice Reflection 2</td>
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<td>Signal Theory</td>
<td>Electronics and Circuits</td>
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<td>Engineering Capstone</td>
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<td>Database Principles</td>
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<td>Management</td>
<td>Select 6 credit points of options</td>
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<td>Programming</td>
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<td>Fundamentals of Biomedical Engineering</td>
<td>Engineering Professional Experience 2</td>
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<td>Fundamentals</td>
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<td>Studio A</td>
<td>Work Integrated Learning 2</td>
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<td>Introduction to Biomedical</td>
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<td></td>
<td></td>
<td></td>
<td>Work Integrated Learning 1</td>
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</tbody>
</table>

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### Civil Engineering major

**Year 1**
- Mathematical Modelling 1
- Engineering Communication
- Physical Modelling
- Introduction to Civil and Environmental Engineering
- Mathematical Modelling 2
- Engineering Mechanics
- Surveying
- Chemistry and Materials Science

**Year 2**
- Design and Innovation Fundamentals
- Engineering Computations
- Mechanics of Solids
- Construction
- Engineering Practice Preparation 1
- Engineering Professional Experience 1
- Work Integrated Learning 1

**Year 3**
- Engineering Economics and Finance
- Soil Behaviour
- Structural Analysis
- Construction Materials
- Engineering Practice Reflection 1
- Engineering Project Management
- Concrete Design
- Fluid Mechanics
- Road and Transport Engineering

**Year 4**
- Entrepreneurship and Commercialisation
- Environmental and Sanitation Engineering
- Geotechnical Engineering
- Select 6 credit points of options
- Engineering Practice Preparation 2
- Engineering Professional Experience 2
- Work Integrated Learning 2

**Year 5**
- Engineering Practice Reflection 2
- Engineering Research Preparation
- Steel and Timber Design
- Computer Modelling and Design
- Engineering Capstone
- Select 18 credit points of options
- Hydraulics and Hydrology

### Civil Engineering major, Construction specialisation

**Year 1**
- Mathematical Modelling 1
- Engineering Communication
- Physical Modelling
- Introduction to Civil and Environmental Engineering
- Mathematical Modelling 2
- Engineering Mechanics
- Surveying
- Chemistry and Materials Science

**Year 2**
- Design and Innovation Fundamentals
- Engineering Computations
- Mechanics of Solids
- Construction
- Engineering Practice Preparation 1
- Engineering Professional Experience 1
- Work Integrated Learning 1

**Year 3**
- Engineering Economics and Finance
- Soil Behaviour
- Structural Analysis
- Construction Materials
- Engineering Practice Reflection 1
- Engineering Project Management
- Concrete Design
- Fluid Mechanics
- Construction Technology 3

**Year 4**
- Geotechnical Engineering
- Construction Project Management Principles
- Engineering Practice Preparation 2
- Select 12 credit points of options
- Engineering Professional Experience 2
- Work Integrated Learning 2

**Year 5**
- Engineering Practice Reflection 2
- Engineering Research Preparation
- Hydraulics and Hydrology
- Engineering Capstone
- Select 12 credit points from the following:
  - Steel and Timber Design
  - Construction Technology
  - Design Team Management
  - Environmental Planning and Law
  - Road and Transport Engineering
  - Select 12 credit points of options
  - Entrepreneurship and Commercialisation

### Civil Engineering major, Structures specialisation

**Year 1**
- Mathematical Modelling 1
- Engineering Communication
- Physical Modelling
- Introduction to Civil and Environmental Engineering
- Mathematical Modelling 2
- Engineering Mechanics
- Surveying
- Chemistry and Materials Science

**Year 2**
- Design and Innovation Fundamentals
- Engineering Computations
- Mechanics of Solids
- Construction
- Engineering Practice Preparation 1
- Engineering Professional Experience 1
- Work Integrated Learning 1

**Year 3**
- Engineering Economics and Finance
- Soil Behaviour
- Structural Analysis
- Construction Materials
- Engineering Practice Reflection 1
- Engineering Project Management
- Concrete Design
- Fluid Mechanics
- Select 6 credit points of options

**Year 4**
- Entrepreneurship and Commercialisation
- Geotechnical Engineering
- Select 6 credit points from the following:
  - Environmental and Sanitation Engineering
  - Road and Transport Engineering
  - Select 6 credit points of options
  - Engineering Practice Preparation 2
  - Engineering Professional Experience 2
  - Work Integrated Learning 2

**Year 5**
- Engineering Research Preparation
- Advanced Engineering Computing
- Steel and Timber Design
- Engineering Practice Reflection 2
- Engineering Capstone
- Computer Modelling and Design
- Select 12 credit points of options
- Hydraulics and Hydrology

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The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each.

Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.

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International Undergraduate Course Guide 2019

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Civil and Environmental Engineering major

**Year 1**
- Mathematical Modelling 1
- Physical Modelling
- Communication
- Introduction to Civil and Environmental Engineering
- Mathematical Modelling 2
- Engineering Mechanics
- Chemistry 1
- Surveying

**Year 2**
- Design and Innovation Fundamentals
- Mechanics of Solids
- Water Supply and Wastewater Engineering
- Engineering Computations
- Engineering Practice Preparation 1
- Engineering Professional Experience 1
- Work Integrated Learning 1

**Year 3**
- Engineering Economics and Finance
- Construction Materials
- Fluid Mechanics
- Principles of Environmental Engineering
- Engineering Practice Reflection 1
- Engineering Project Management
- Structural Analysis
- Pollution Control and Waste Management
- Hydraulics and Hydrology

**Year 4**
- Entrepreneurship and Commercialisation
- Soil Behaviour
- Environmental Chemical Processes
- Concrete Design
- Engineering Practice Preparation 2
- Engineering Professional Experience 2
- Work Integrated Learning 2

**Year 5**
- Engineering Research Preparation
- Geotechnical Engineering
- Environmental Planning and Law
- Road and Transport Engineering
- Engineering Practice Reflection 2
- Engineering Capstone
- Renewable Energy Technology
- Water and Environmental Design
- Steel and Environmental Design

Electrical Engineering major

**Year 1**
- Mathematical Modelling 1
- Engineering Communication
- Introduction to Electrical and Electronic Engineering
- Physical Modelling
- Mathematical Modelling 2
- Introductory Digital Systems
- Fundamentals of Electrical Engineering
- Electronics and Circuits

**Year 2**
- Design and Innovation Fundamentals
- Fundamentals of C Programming
- Circuit Analysis
- Advanced Mathematics and Physics
- Engineering Practice Preparation 1
- Engineering Professional Experience 1
- Work Integrated Learning 1

**Year 3**
- Engineering Economics and Finance
- Electromechanical Automation
- Signals and Systems
- Engineering Practice Reflection 1
- Engineering Project Management
- Select 12 credit points from the following:
  - Advanced Digital Systems
  - Introductory Control
  - Electrical Machines
  - Power Circuit Theory
  - Select 12 credit points of options

**Year 4**
- Entrepreneurship and Commercialisation
- Engineering Practice Preparation 2
- Select 6 credit points from the following:
  - Advanced Control
  - Embedded Software
  - Power Electronics and Drives
  - Power Systems Analysis and Design
  - Select 6 credit points from the following:
    - Advanced Digital Systems
    - Introductory Control
    - Electrical Machines
    - Power Circuit Theory
    - Select 6 credit points of options
  - Engineering Professional Experience 2
  - Work Integrated Learning 2

**Year 5**
- Engineering Research Preparation
- Engineering Practice Reflection 2
- Select 12 credit points from the following:
  - Embedded Software
  - Power Electronics and Drives
  - Advanced Control
  - Power Systems Analysis and Design
  - Engineering Capstone
  - Select 18 credit points from the following:
    - Advanced Robotics
    - Real-time Operating Systems
    - Renewable Energy Systems
    - Power Systems Operation and Protection
  - Select 6 credit points of options

Mechanical Engineering major

**Year 1**
- Mathematical Modelling 1
- Engineering Communication
- Introduction to Mechanical and Mechatronic Engineering
- Physical Modelling
- Mathematical Modelling 2
- Introduction to Electrical and Electronic Engineering
- Fundamentals of Mechanical Engineering
- Chemistry and Materials Science

**Year 2**
- Engineering Practice Preparation 1
- Design and Innovation Fundamentals
- Manufacturing Engineering Mechanics of Solids
- Engineering Computations
- Engineering Professional Experience 1
- Work Integrated Learning 1

**Year 3**
- Engineering Practice Reflection 1
- Mechanical Design 1
- Machine Dynamics
- Fluid Mechanics
- Strength of Engineering Materials
- Engineering Economics and Finance
- Mechanical Design 2
- Thermodynamics
- Dynamics and Control

**Year 4**
- Engineering Practice Preparation 2
- Engineering Project Management
- Advanced Manufacturing
- Mechanical Vibration and Measurement
- Heat Transfer
- Engineering Professional Experience 2
- Work Integrated Learning 2

**Year 5**
- Mechanical and Mechatronic Design
- Engineering Research Preparation
- Engineering Practice Reflection 2
- Entrepreneurship and Commercialisation
- Engineering Capstone
- Select 24 credit points of options
### Mechanical and Mechatronic Engineering major

**Year 1**  
- Mathematical Modelling 1  
- Engineering Communication  
- Introduction to Mechanical and Mechatronic Engineering  
- Physical Modelling  
- Mathematical Modelling 2  
- Introduction to Electrical and Electronic Engineering  
- Fundamentals of Mechanical Engineering  
- Manufacturing Engineering

**Year 2**  
- Engineering Practice Preparation 1  
- Design and Innovation Fundamentals  
- Electronics and Circuits  
- Mechanics of Solids  
- Machine Dynamics  
- Engineering Professional Experience 1  
- Work Integrated Learning 1

**Year 3**  
- Mechanical Design 1  
- Mechatronics 1  
- Strength of Engineering Materials  
- Fluid Mechanics  
- Engineering Practice Reflection 1  
- Mechatronics 2  
- Thermodynamics  
- Dynamics and Control  
- Engineering Economics and Finance

**Year 4**  
- Engineering Practice Preparation 2  
- Engineering Project Management  
- Programming for Mechatronic Systems  
- Mechanical Design 2  
- Electromechanical Automation  
- Engineering Professional Experience 2  
- Work Integrated Learning 2

**Year 5**  
- Engineering Research Preparation  
- Robotics  
- Engineering Practice Reflection 2  
- Sensors and Control for Mechatronic Systems  
- Heat Transfer  
- Entrepreneurship and Commercialisation  
- Engineering Capstone  
- Mechanical and Mechatronic Design  
- Select 6 credit points of options

### Mechatronic Engineering major

**Year 1**  
- Mathematical Modelling 1  
- Engineering Communication  
- Introduction to Mechanical and Mechatronic Engineering  
- Physical Modelling  
- Mathematical Modelling 2  
- Introduction to Electrical and Electronic Engineering  
- Fundamentals of Mechanical Engineering  
- Manufacturing Engineering

**Year 2**  
- Engineering Practice Preparation 1  
- Design and Innovation Fundamentals  
- Electronics and Circuits  
- Mechanics of Solids  
- Machine Dynamics  
- Engineering Professional Experience 1  
- Work Integrated Learning 1

**Year 3**  
- Mechanical Design 1  
- Mechatronics 1  
- Strength of Engineering Materials  
- Thermodynamics  
- Engineering Practice Reflection 1  
- Mechatronics 2  
- Mechanical Design 2  
- Dynamics and Control  
- Engineering Economics and Finance

**Year 4**  
- Engineering Practice Preparation 2  
- Engineering Project Management  
- Programming for Mechatronic Systems  
- Sensors and Control for Mechatronic Systems  
- Electromechanical Automation  
- Engineering Professional Experience 2  
- Work Integrated Learning 2

**Year 5**  
- Engineering Research Preparation  
- Robotics  
- Engineering Practice Reflection 2  
- Entrepreneurship and Commercialisation  
- Engineering Capstone  
- Select 24 credit points of options

### Data Engineering major

**Year 1**  
- Mathematical Modelling 1  
- Engineering Communication  
- Introduction to Data Engineering  
- Fundamentals of C Programming  
- Mathematical Modelling 2  
- Network Fundamentals  
- Introduction to Data Analytics  
- Fundamentals Studio A

**Year 2**  
- Engineering Practice Preparation 1  
- Physical Modelling Sensing, Actuation and Control  
- Information and Signals Fundamentals Studio B  
- Engineering Professional Experience 1  
- Work Integrated Learning 1

**Year 3**  
- Design and Innovation Fundamentals  
- Data Systems Applications Studio A  
- Engineering Practice Reflection 1  
- Engineering Economics and Finance  
- Data Engineering Design Applications Studio B  
- Select 12 credit points from the following:  
  - Technical subject choice (Data Engineering)

**Year 4**  
- Engineering Project Management  
- Interrogating Technology: Sustainability, Environment and Social Change  
- Professional Studio A  
- Engineering Practice Preparation 2  
- Select 6 credit points from the following:  
  - Technical subject choice (Data Engineering)  
  - Engineering Professional Experience 2  
  - Work Integrated Learning 2

**Year 5**  
- Entrepreneurship and Commercialisation  
- Engineering Research Preparation  
- Professional Studio B  
- Engineering Practice Reflection 2  
- Engineering Capstone  
- Select 24 credit points of options

The course structures outlined in this course guide are based on a March (Autumn) Intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each.

Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.
### Software Engineering major

**Year 1**
- Mathematical Modelling 1
- Engineering
- Communication
- Applications Programming
- Business Requirements Modelling
- Mathematical Modelling 2
- Sensing, Actuation and Control
- Systems Testing and Quality Management
- Database Fundamentals

**Year 2**
- Engineering Practice Preparation 1
- Physical Modelling
- Data Structures and Algorithms
- Select 6 credit points of options
- Software Engineering Studio 1A
- Engineering Professional Experience 1
- Work Integrated Learning 1

**Year 3**
- Design and Innovation Fundamentals
- Information System Development Methodologies
- Software Engineering Studio 1B
- Engineering Practice Reflection 1
- Engineering Economics and Finance
- Software Engineering Studio 2A
- Software Architecture
- Select 12 credit points from the following:
  - Technical subject choice (Software Engineering)

**Year 4**
- Engineering Practice Preparation 2
- Engineering Project Management
- Software Engineering Studio 2B
- Select 6 credit points of options
- Select 6 credit points from the following:
  - Technical subject choice (Software Engineering)
  - Engineering Professional Experience 2
  - Work Integrated Learning 2

**Year 5**
- Engineering Research Preparation
- Entrepreneurship and Commercialisation
- Engineering Practice Reflection 2
- Software Engineering Studio 3A
- Select 6 credit points from the following:
  - Technical subject choice (Software Engineering)
  - Engineering Capstone
  - Select 12 credit points of options
  - Software Engineering Studio 3B

### Electronic Engineering major

**Year 1**
- Mathematical Modelling 1
- Engineering
- Communication
- Introduction to Electrical and Electronic Engineering Fundamentals of C Programming
- Mathematical Modelling 2
- Introductory Digital Systems
- Integrated Electronic Systems Design
- Fundamentals Studio A

**Year 2**
- Engineering Practice Preparation 1
- Physical Modelling
- Sensing, Actuation and Control
- Electronics and Circuits Fundamentals Studio B
- Engineering Professional Experience 1
- Work Integrated Learning 1

**Year 3**
- Design and Innovation Fundamentals
- IoT Components and Technologies
- Applications Studio A
- Engineering Practice Reflection 1
- Engineering Economics and Finance
- Electronic Analysis and Design
- Applications Studio B
- Select 12 credit points from the following:
  - Internet of Things (Systems and Devices)
  - Internet of Things (Software)
  - Communication Systems Machine Vision

**Year 4**
- Engineering Project Management
- Electronic Engineering Design
- Professional Studio A
- Engineering Practice Preparation 2
- Select 6 credit points from the following:
  - Internet of Things (Systems and Devices)
  - Internet of Things (Software)
  - Communication Systems Machine Vision
  - Engineering Professional Experience 2
  - Work Integrated Learning 2

**Year 5**
- Entrepreneurship and Commercialisation
- Engineering Research Preparation
- Professional Studio B
- Engineering Practice Reflection 2
- Engineering Capstone
- Select 24 credit points of options

### Professional recognition

The Bachelor of Engineering (Honours) is accredited by Engineers Australia at the Graduate Professional Engineer level. Under the Washington Accord the degree is internationally recognised by the following countries: Canada, China, Chinese Taipei, Hong Kong China, India, Ireland, Japan, Korea, Malaysia, New Zealand, Russia, Singapore, South Africa, Sri Lanka, Turkey, the United Kingdom, and the United States.

The Diploma in Professional Engineering Practice allows students to accelerate their entry into the engineering profession as a chartered professional engineer by reducing the time required for professional experience after graduation.

### Career opportunities

Career options depend on the major chosen.
Bachelor of Engineering Science

Course description

This course is an engineering technologist-level program which is similar in nature to the Bachelor of Engineering (Honours) (C09066) but does not provide full professional engineering status.

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

Areas of study

Engineering, research and analysis, project management, sustainability, problem solving methodologies, engineering communication, engineering design process and analysis, accounting fundamentals, fundamentals of mechanics, thermal physics, electricity, fluids, waves and optics, mathematical modelling, calculus, linear algebra, statistics and 3D geometry.

Majors

Civil, data, electrical, electronic, mechanical, mechatronic, software. Civil and environmental engineering, and mechanical and mechatronic engineering are not offered as majors in this degree.

Course structure

Civil Engineering major

Year 1
Engineering Communication
Mathematical Modelling 1
Physical Modelling
Introduction to Civil and Environmental Engineering
Mathematical Modelling 2
Chemistry and Materials Science
Engineering Mechanics
Surveying

Year 2
Engineering Computations
Design and Innovation Fundamentals
Mechanics of Solids
Fluid Mechanics
Engineering Economics and Finance
Construction
Environmental and Sanitation Engineering
Select 6 credit points of electives

Year 3
Soil Behaviour
Structural Analysis
Construction Materials
Interrogating Technology: Sustainability, Environment and Social Change
Project BEngSc
Concrete Design
Select 12 credit points of electives

Data Engineering major

Year 1
Mathematical Modelling 1
Engineering Communication
Fundamentals of C Programming
Introduction to Data Engineering
Mathematical Modelling 2
Introduction to Data Analytics
Network Fundamentals
Fundamentals Studio A

Year 2
Physical Modelling
Sensing, Actuation and Control
Information and Signals
Fundamentals Studio B
Design and Innovation Fundamentals
Applications Studio A
Select 12 credit points from the following:
Technical subject choice (Data Engineering)

Year 3
Engineering Economics and Finance
Applications Studio B
Select 6 credit points from the following:
Technical subject choice (Data Engineering)
Interrogating Technology: Sustainability, Environment and Social Change
Project BEngSc
Select 18 credit points of options

Electrical Engineering major

Year 1
Mathematical Modelling 1
Engineering Communication
Introduction to Electrical and Electronic Engineering
Physical Modelling
Mathematical Modelling 2
Introductory Digital Systems
Fundamentals of Electrical Engineering
Electronics and Circuits

Year 2
Design and Innovation Fundamentals
Fundamentals of C Programming
Electromechanical Automation
Circuit Analysis
Engineering Economics and Finance
Signals and Systems
Advanced Mathematics and Physics
Select 6 credit points of electives

Year 3
Power Circuit Theory
Advanced Digital Systems
Data Acquisition and Distribution
Project BEngSc
Electrical Machines
Introductory Control
Select 12 credit points of electives

The course structures outlined in this course guide are based on a March (Autumn) Intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each. Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.
Career opportunities

Career options include positions in engineering teams across the full spectrum of engineering activities. Specific career options depend on the major chosen.
The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each.

Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.

### Combined degrees

<table>
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<tr>
<th>Course code</th>
<th>Course name</th>
<th>Sessions</th>
<th>Fees per session</th>
<th>Intake</th>
<th>Location</th>
<th>CRICOS code</th>
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<tbody>
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<td>C09068</td>
<td>Bachelor of Engineering (Honours) Bachelor of Arts in International Studies</td>
<td>10</td>
<td>A$19,960</td>
<td>March</td>
<td>City</td>
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<td>C09070</td>
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<td>10</td>
<td>A$19,960</td>
<td>March</td>
<td>City</td>
<td>084091G</td>
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<tr>
<td>C09076</td>
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<td>A$19,960</td>
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<td>City</td>
<td>084097B</td>
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<td>C09074</td>
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<td>A$19,960</td>
<td>March</td>
<td>City</td>
<td>084095D</td>
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<tr>
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<td>10</td>
<td>A$19,960</td>
<td>March</td>
<td>City</td>
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<td>C10136</td>
<td>Bachelor of Engineering Science Bachelor of Laws</td>
<td>11</td>
<td>A$21,180</td>
<td>March, July</td>
<td>City</td>
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</table>
Health

Nursing | Health science: Global health, Digital health and analytics, Pharmacology, Human structure and function | Sport and exercise management | Sport and exercise science: Exercise science, health and physical education

IN 2017 THE UTS FACULTY OF HEALTH HAD:

- 3151 undergraduate coursework students
- 902 international undergraduate coursework students
- 4 students go overseas on global exchange
Join a top-ranked program. UTS is ranked 7th for Nursing in the QS World University Subject Rankings 2018.

Gain a globally relevant education. Immerse yourself in a proven mix of practice and theory that provides you with the skills and knowledge needed to work in a range of health care contexts.

Apply and refine your practical skills in some of the most highly developed health facilities in the Southern Hemisphere. Our facilities include 16 world-class clinical practice labs with cutting edge technology and robotic patients, plus the brand new Rugby Australia Building in the heart of Sydney’s elite sporting precinct at Moore Park.

Benefit from our industry partnerships and international acclaim. Our courses are regularly updated to incorporate changes in industry and are supported by health districts, government, healthcare agencies and sport and fitness associations.

Learn from expert staff. As well as having a wealth of experience in industry, many of our academics are internationally renowned researchers contributing to current and future practice in health and fitness.

Acquire a global outlook on health through our international connections; the UTS-based World Health Organisation (WHO) Collaborating Centre for Nursing, Midwifery and Health Development is the elect Secretariat of the Global Network and undertakes projects supporting WHO objectives.

Graduate with a set of employable attributes. UTS Faculty of Health has worked with industry partners to ensure you graduate ready to excel in your chosen career.

Nursing degrees involve 800+ hours of clinical practice. Sport and exercise and health science involve extensive internships.

DR TAMARA POWER
Senior Lecturer, Nursing
“Nursing students need to embrace the idea early that they will be leading multidisciplinary teams almost as soon as they graduate, so they need to equip themselves with knowledge, emotional intelligence and a desire to never stop learning. Learning should be exciting and empowering and fun. My favourite thing about being a lecturer is finding creative ways to teach difficult concepts. People remember things they learn while they’re laughing.”

FILOMENO III VILLON, PHILIPPINES
Bachelor of Nursing (Graduate Entry)
“Studying in a top rated school in Australia has been like a dream come true. The staff at UTS are some of the kindest and most approachable people I have met, and in nursing, we have state-of-the-art lab facilities that make learning more fun and interactive. Being an international student in the graduate entry program, I never cease to be amazed by the latest trends in nursing that I can only experience here in Australia.”

SIMIN PENG, CHINA
Bachelor of Nursing Registered Nurse (graduate program), Catholic Healthcare
“I loved studying at UTS because of the supportive staff. If you have any questions they are very approachable. Knowing that the faculty cares encourages you to work harder.

The university also has great resources that help you to become more independent and responsible for your own study. A lot of the subject material is online which gives you more time to prepare for your classes. I think this is especially useful for international students and encourages active learning.”
**Course description**

The Bachelor of Health Science is a flexible and innovative degree that equips graduates with qualifications to help make a difference across diverse settings of health care provision.

The course is characterised by a strong emphasis on the social model of health, which can be combined with science content from pharmacology, human structure and function, or data analytics and information management. Students develop knowledge within a framework that can be tailored to suit their interests and needs. Students can focus on learning how to use and interpret data to drive innovation and improvement in health systems. Alternatively, students can develop their knowledge of global health and international health priorities in order to contribute to overseas health initiatives and aid organisations. Students who complete this course with the required pathway and grade point average also meet current entry criteria for a UTS master of pharmacy or physiotherapy course.

**Areas of study**

Health care systems, social determinants of health, public health, health research, national health priorities, digital health, data analytics, health information management, global health, pharmacology.

**Majors**

Global health, digital health and analytics, human structure and function, pharmacology, no major.

**Course structure**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Health Care Systems</td>
<td>Communication and Technology</td>
<td>Professional Placement</td>
</tr>
<tr>
<td>Introduction to Public Health</td>
<td>Introduction to Digital Health</td>
<td>Diversity and Culture</td>
</tr>
<tr>
<td>Interpersonal Communication</td>
<td>Social, Emotional and Psychological Wellbeing</td>
<td>Select 36 credit points from the following:</td>
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<tr>
<td>Psychosocial Perspectives in Health</td>
<td>Indigenous Health and Wellbeing</td>
<td>No specified major</td>
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<tr>
<td>Evidence in Health Care</td>
<td>Arguments, Evidence and Intuition</td>
<td></td>
</tr>
<tr>
<td>Principles of Primary Health Care</td>
<td>Health Project and Program Management and Evaluation</td>
<td></td>
</tr>
<tr>
<td>Health Promotion and Advocacy</td>
<td>Select 12 credit points from the following:</td>
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</tr>
<tr>
<td>Fundamentals of Epidemiology and Population Health</td>
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**Global Health major**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Health Care Systems</td>
<td>Communication and Technology</td>
<td>Epidemiology and Global Population Health</td>
</tr>
<tr>
<td>Psychosocial Perspectives in Health</td>
<td>Introduction to Digital Health</td>
<td>Strengthening Global Health Systems</td>
</tr>
<tr>
<td>Introduction to Public Health</td>
<td>Social, Emotional and Psychological Wellbeing</td>
<td>Professional Placement</td>
</tr>
<tr>
<td>Interpersonal Communication</td>
<td>Indigenous Health and Wellbeing</td>
<td>Global, Sexual, Reproductive, Maternal and Child Health</td>
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<tr>
<td>Evidence in Health Care</td>
<td>Arguments, Evidence and Intuition</td>
<td>The Environment, Health and Sustainability</td>
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<tr>
<td>Principles of Primary Health Care</td>
<td>Health Project and Program Management and Evaluation</td>
<td>Select 12 credit points from the following:</td>
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<tr>
<td>Health Promotion and Advocacy</td>
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<tr>
<td>Fundamentals of Epidemiology and Population Health</td>
<td>Global Human Rights and Health Equity</td>
<td>Diversity and Culture</td>
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</table>

**Digital Health and Analytics major**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
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</thead>
<tbody>
<tr>
<td>Introduction to Health Care Systems</td>
<td>Communication and Technology</td>
<td>Professional Placement</td>
</tr>
<tr>
<td>Psychosocial Perspectives in Health</td>
<td>Introduction to Digital Health</td>
<td>Health Analytics</td>
</tr>
<tr>
<td>Introduction to Public Health</td>
<td>Social, Emotional and Psychological Wellbeing</td>
<td>Data Science in Health Care</td>
</tr>
<tr>
<td>Interpersonal Communication</td>
<td>Indigenous Health and Wellbeing</td>
<td>Design and Evaluation in Digital Health</td>
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<tr>
<td>Evidence in Health Care</td>
<td>Arguments, Evidence and Intuition</td>
<td>Advanced Health Analytics</td>
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<td>Principles of Primary Health Care</td>
<td>Health Project and Program Management and Evaluation</td>
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<td>Health Promotion and Advocacy</td>
<td>Electives (Digital Health and Analytics)</td>
<td>Electives (Digital Health and Analytics)</td>
</tr>
<tr>
<td>Fundamentals of Epidemiology and Population Health</td>
<td>Health Information Management</td>
<td>Diversity and Culture</td>
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</tbody>
</table>
The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6–8 credit points each.

Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.

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### Pharmacology major

**Year 1**
- Introduction to Health Care Systems
- Psychosocial Perspectives in Health
- Introduction to Public Health
- Interpersonal Communication
- Evidence in Health Care
- Principles of Primary Health Care
- Health Promotion and Advocacy
- Fundamentals of Epidemiology and Population Health

**Year 2**
- Communication and Technology
- Social, Emotional and Psychological Wellbeing
- Cell Biology and Genetics
- Chemistry 1
- Indigenous Health and Wellbeing
- Arguments, Evidence and Intuition
- Health Project and Program Management and Evaluation
- Chemistry 2

**Year 3**
- Statistical Design and Analysis
- Pharmacology 1
- Metabolic Biochemistry
- Select 6 credit points from the following:
  - Electives (Pharmacology)
  - Pharmacology 2
- Human Anatomy and Physiology
- Professional Placement
- Diversity and Culture

### Human Structure and Function major

**Year 1**
- Introduction to Health Care Systems
- Psychosocial Perspectives in Health
- Introduction to Public Health
- Interpersonal Communication
- Evidence in Health Care
- Principles of Primary Health Care
- Health Promotion and Advocacy
- Fundamentals of Epidemiology and Population Health

**Year 2**
- Communication and Technology
- Introduction to Digital Health
- Social, Emotional and Psychological Wellbeing
- Structural Anatomy
- Indigenous Health and Wellbeing
- Arguments, Evidence and Intuition
- Health Project and Program Management and Evaluation
- Functional Anatomy

**Year 3**
- Biomechanics of Human Motion
- Physiological Bases of Human Movement
- Exercise Physiology
- Neuroscience
- Select 12 credit points from the following:
  - Electives (Human Structure and Function)
- Diversity and Culture
- Professional Placement

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### Career opportunities

Career options include positions across a broad range of areas in the healthcare sector including health promotion, advocacy, health education, e-health, health data and information management systems, planning and policy, project management and evaluation, community development, research and consultancy across both public and private health sectors, physiotherapy (pathway) and pharmacy (pathway). Examples of workplaces include refugee health agencies, drug and alcohol agencies, youth networks, humanitarian organisations, Aboriginal health organisations, public and private hospitals, health research agencies, government and non-government health organisations, and aid organisations.

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### Bachelor of Nursing

#### Course description

The Bachelor of Nursing is designed to prepare students for the role of the registered nurse. The course incorporates a range of nursing subjects as well as behavioural science, physical science, ethics and professional subjects relevant to contemporary nursing practice. Graduates of the course are capable of delivering a high standard of confident, safe and therapeutic nursing care in a variety of health care settings. They demonstrate nursing care that is patient-centred, informed and responsible.

Clinical learning is a key element of the course with clinical placements in health care settings occurring in every session. Learning technologies such as simulation, which is undertaken within faculty clinical practice laboratories, assist students in preparing for clinical practice. Across the course students develop an e-portfolio to showcase their abilities and facilitate career planning. In the third year of the course students are able to pursue an area of nursing interest by choosing a clinical specialty elective.

#### Areas of study

Nursing.

#### Sub-majors

Nursing: In the final year of the program, students are able to pursue an area of nursing interest by choosing a clinical specialty elective.
<table>
<thead>
<tr>
<th>Standard</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment and Therapeutics in Health Care 1</td>
<td>Evidence for Nursing</td>
<td>Complex Nursing Care: Medical Surgical</td>
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<tr>
<td>Health and Homeostasis 1</td>
<td>Pathophysiology and Pharmacology 1</td>
<td>Optimising Care in Chronic Conditions</td>
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<td>Human Life Course Development</td>
<td>Contemporary Indigenous Health and Wellbeing</td>
<td>Professional Accountability</td>
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<td>Assessment and Therapeutics in Health Care 2</td>
<td>Fundamentals of Mental Health Nursing</td>
<td>Introduction to Specialty Practice: Aboriginal Community Engagement</td>
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<tr>
<td>Health and Homeostasis 2</td>
<td>Nursing Care of the Older Person</td>
<td>Introduction to Specialty Practice: Care of the Older Person</td>
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<td>Professional Identity</td>
<td>Medical Surgical Nursing</td>
<td>Introduction to Specialty Practice: Community Health Nursing</td>
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<td>Communication and Diversity</td>
<td>Family and Children's Nursing</td>
<td>Introduction to Specialty Practice: Critical Care Nursing</td>
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<table>
<thead>
<tr>
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<tr>
<td>Health and Homeostasis</td>
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<td>Health Assessment and Nursing Therapeutics</td>
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<td>Medical Surgical Nursing (Graduate Entry)</td>
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<td>Evidence for Nursing</td>
<td>Select 6 credit points from the following:</td>
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<td>Health and Society</td>
<td>Introduction to Specialty Practice: Aboriginal Community Engagement</td>
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<tr>
<td>Pathophysiology and Pharmacology 1</td>
<td>Introduction to Specialty Practice: Care of the Older Person</td>
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<tr>
<td>Fundamentals of Mental Health Nursing (Graduate Entry)</td>
<td>Introduction to Specialty Practice: Community Health Nursing</td>
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<tr>
<td>Communication and Diversity</td>
<td>Introduction to Specialty Practice: Critical Care Nursing</td>
<td></td>
</tr>
<tr>
<td>Pathophysiology and Pharmacology 2</td>
<td>Introduction to Specialty Practice: Child and Family Health Nursing</td>
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</tr>
<tr>
<td>Family and Children's Nursing</td>
<td>Introduction to Specialty Practice: Global Health</td>
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<tr>
<td>Nursing Care of the Older Person</td>
<td>Introduction to Specialty Practice: Mental Health Nursing</td>
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<tr>
<td>Contemporary Indigenous Health and Wellbeing</td>
<td>Introduction to Specialty Practice: Palliative Care</td>
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<td></td>
<td>Introduction to Specialty Practice: Perioperative Nursing</td>
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<td></td>
<td>Introduction to Specialty Practice: Reproductive, Maternal and Child Health</td>
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<td></td>
<td>Introduction to Specialty Practice: Substance Use Disorders</td>
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<td></td>
<td>Introduction to Specialty Practice: Women's Health</td>
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<tr>
<td></td>
<td>Integrated Nursing Practice</td>
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<td></td>
<td>Complex Nursing Care: Mental Health</td>
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<td></td>
<td>Navigating Transition</td>
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<tr>
<td></td>
<td>Leadership for Beginning Practice</td>
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</table>
### Accelerated Enrolled Nurse Entry

#### Year 1
- Health and Society
- Evidence for Nursing
- Medical Surgical Nursing
- Pathophysiology and Pharmacology 1
- Family and Children's Nursing
- Contemporary Indigenous Health and Wellbeing
- Fundamentals of Mental Health Nursing
- Pathophysiology and Pharmacology 2

#### Year 2
- Complex Nursing Care: Medical Surgical
- Optimising Care in Chronic Conditions
- Professional Accountability

Select 6 credit points from the following:
- Introduction to Specialty Practice: Aboriginal Community Engagement
- Introduction to Specialty Practice: Care of the Older Person
- Introduction to Specialty Practice: Community Health Nursing
- Introduction to Specialty Practice: Critical Care Nursing
- Introduction to Specialty Practice: Child and Family Health Nursing
- Introduction to Specialty Practice: Global Health
- Introduction to Specialty Practice: Mental Health Nursing
- Introduction to Specialty Practice: Paediatric Nursing
- Introduction to Specialty Practice: Palliative Care
- Introduction to Specialty Practice: Perioperative Nursing
- Introduction to Specialty Practice: Reproductive, Maternal and Child Health
- Introduction to Specialty Practice: Substance Use Disorders
- Introduction to Specialty Practice: Women's Health
- Integrated Nursing Practice
- Complex Nursing Care: Caring for the Older Person
- Navigating Transition
- Leadership for Beginning Practice

### Professional recognition

This course is subject to accreditation by the Australian Nursing and Midwifery Accreditation Council (ANMAC) and approval by the Nursing and Midwifery Board of Australia (NMBA). See the faculty rules for more information.

### Career opportunities

Career options for registered nurses include working in diverse specialty areas such as community health, critical care, intensive care, aged care, mental health, operating theatres and paediatrics. Career progression opportunities include working as a clinical nurse consultant, clinical nurse specialist, nurse educator, nurse manager, nurse practitioner or rural and remote practice nurse.

### Prior study

The accelerated program has the following requirements.

- **606005** (Bachelor of Nursing Accelerated: Graduate Entry): applicants who have successfully completed an Australian (or overseas equivalent) bachelor's degree within the past eight years are eligible to apply. The focus of the previous bachelor's degree should have a human physical/behavioural science base and should reflect the student's attainment of communication and academic writing skills. Applicants are assessed on an individual basis with successful applicants given advanced standing as block credit transfer equivalent to four subjects (24 credit points). Students who receive block credit of 24 credit points are not eligible for any further credit reduction against their course of study. This course can be completed in two years including two pre-session subjects in January/February and two summer subjects. Successful completion of the two pre-session subjects is required to progress into the Accelerated: Graduate Entry course.

- **606004** (Bachelor of Nursing Accelerated: Enrolled Nurse Certificate or Diploma Entry): applicants must have completed and commenced their studies in or after 2011 in either:
  - the TAFE Certificate IV in Nursing (Enrolled/Division 2 Nursing) or the TAFE Diploma/Advanced Diploma of Nursing (Enrolled/Division 2 Nursing), or
  - an Australian Health Practitioners Regulation Agency (AHPRA) approved Certificate IV in Nursing (Enrolled/Division 2 Nursing) or Diploma/Advanced Diploma of Nursing (Enrolled/Division 2 Nursing) leading to eligibility to enrol as a nurse with AHPRA.

Hospital-trained enrolled nurses are not eligible for the accelerated course. Successful applicants are given advanced standing (eight subjects = 48 credit points) for their previous studies and are able to complete the course in two calendar years full time with no pre-session or summer subjects. Students who receive block credit of 48 credit points are not eligible for any further credit reduction against their course of study.

All applicants to the accelerated programs must have completed their TAFE qualification or bachelor's degree by December 2018. Applicants who have completed a partial Bachelor of Nursing qualification at another institution should apply for 606000 or 606001 and also contact UTS: Health before January 2019 for program advice. Entry to the accelerated programs is competitive and each application is assessed individually. For 606000, 606001: applicants may apply for subject credit recognition on an individual basis. Faculty requirements are available for download (80.47kb PDF) at:

www.uts.edu.au/future-students/health/essential-information/credit-recognition

The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each.

Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.
Bachelor of Sport and Exercise Management

Course description
This course develops graduates who possess a sound knowledge of the biophysical, behavioural and sociocultural foundations of sport and exercise, combined with the management skills and knowledge increasingly necessary in sport and exercise professions.

This course contains a mix of sport and exercise and business subjects. As the sport and exercise industry has undergone a period of substantial growth, the need for sport and exercise professionals with management skills and qualifications has become increasingly important. Graduates are equipped with the professional knowledge and skills to operate in one of Australia's most dynamic industries. Students who complete this course with the required electives and grade point average also meet current entry criteria for the Master of Physiotherapy.

Areas of study
Sport and exercise, management.

Course structure

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Anatomy</td>
<td>Exercise Physiology</td>
<td>Complex Exercise Management</td>
</tr>
<tr>
<td>Biomechanics of Human Motion</td>
<td>Sport and Exercise Psychology</td>
<td>Sport and Exercise Internship</td>
</tr>
<tr>
<td>Managing People and Organisations</td>
<td>Research Methods for Sport and Exercise</td>
<td>Select 24 credit points of electives</td>
</tr>
<tr>
<td>Sport and Society</td>
<td>Managing Professional Sport</td>
<td>Sport Marketing and Media</td>
</tr>
<tr>
<td>Functional Anatomy</td>
<td>Exercise Prescription</td>
<td>Law and Ethics for Managers</td>
</tr>
<tr>
<td>Strength and Conditioning</td>
<td>Nutrition for Health and Physical Activity</td>
<td></td>
</tr>
<tr>
<td>Accounting Skills for Managers</td>
<td>Marketing Foundations</td>
<td></td>
</tr>
<tr>
<td>The Organisation of Australian Sport</td>
<td>Event Management</td>
<td></td>
</tr>
</tbody>
</table>

Career opportunities
Career options include athlete management, corporate health and fitness, fitness consultant, health promotion, sport development manager, sport event manager, sport marketing, sport policy, sport scientist, sport venue manager and physiotherapy (pathway).

Bachelor of Sport and Exercise Science

Course description
The Bachelor of Sport and Exercise Science meets the demand for professionals able to provide physical activity services to all sectors of the community.

The course provides students with a strong understanding of the processes and mechanisms underlying sport and exercise science, and with the knowledge and skills necessary to manage and plan sport and exercise activities in health, exercise rehabilitation, sport, event and education contexts.

Students who complete this course with the Health and Physical Education major (HPE) are eligible for direct entry into the Master of Teaching in Secondary Education (C04255) offered by UTS: Education. This course is formally accredited with the NSW Education Standards Authority (NESA) and provides HPE students with the opportunity to complete an undergraduate and postgraduate degree. Students who complete this course with the required electives and grade point average also meet current entry criteria for the Master of Physiotherapy.

Areas of study
Sport and exercise, health.

Majors
Exercise Science, Health and Physical Education, No specified major.

Course structure

Exercise Science major

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structural Anatomy</td>
<td>Exercise Physiology</td>
<td>Sport and Exercise Science Practicum</td>
</tr>
<tr>
<td>Biomechanics of Human Motion</td>
<td>Contemporary Health Issues</td>
<td>Complex Exercise Management</td>
</tr>
<tr>
<td>Physiological Bases of Human Movement</td>
<td>Sport and Exercise Psychology</td>
<td>Motor Learning and Control</td>
</tr>
<tr>
<td>Sport and Society</td>
<td>Research Methods for Sport and Exercise</td>
<td>Skill Acquisition</td>
</tr>
<tr>
<td>Functional Anatomy</td>
<td>Applied Biomechanics</td>
<td>Applied Exercise Physiology</td>
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<td>Strength and Conditioning</td>
<td>Exercise Prescription</td>
<td>Exercise Rehabilitation</td>
</tr>
<tr>
<td>Health and Lifespan Development</td>
<td>Health Promotion</td>
<td>Select 12 credit points of electives</td>
</tr>
<tr>
<td>The Organisation of Australian Sport</td>
<td>Nutrition for Health and Physical Activity</td>
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</table>
Health and Physical Education major

Year 1
Structural Anatomy
Biomechanics of Human Motion
Physiological Bases of Human Movement
Sport and Society
Functional Anatomy
Strength and Conditioning
Health and Lifespan Development
The Organisation of Australian Sport

Year 2
Exercise Physiology
Contemporary Health Issues
Sport and Exercise Psychology
Research Methods for Sport and Exercise
Applied Biomechanics
Exercise Prescription
Health Promotion
Nutrition for Health and Physical Activity

Year 3
Complex Exercise Management
Performance Studies 1: Gymnastics and Dance
Performance Studies 2: Dance and Athletics
Skill Acquisition
Applied Exercise Physiology
Select 12 credit points of electives
Performance Studies 3: Sport and Aquatics

No specified major

Year 1
Structural Anatomy
Biomechanics of Human Motion
Physiological Bases of Human Movement
Sport and Society
Functional Anatomy
Strength and Conditioning
Health and Lifespan Development
The Organisation of Australian Sport

Year 2
Exercise Physiology
Contemporary Health Issues
Sport and Exercise Psychology
Research Methods for Sport and Exercise
Applied Biomechanics
Exercise Prescription
Health Promotion
Nutrition for Health and Physical Activity

Year 3
Sport and Exercise Internship
Complex Exercise Management
Applied Exercise Physiology
Skill Acquisition
Select 24 credit points of electives

Professional recognition

NSW Education Standards Authority (NESA) (for those students who go on to complete the Master of Teaching in Secondary Education).

Career opportunities

Career options include sport and exercise science; corporate health and wellbeing; strength and conditioning; personal training; physiotherapy (pathway); exercise rehabilitation; sports coaching; teaching; health and physical education (HPE); outdoor education; and facility management.

Honours degrees

Applicants must have completed a UTS recognised bachelor's degree in a relevant discipline at an appropriate level.

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Sessions</th>
<th>Fees per session</th>
<th>Intake</th>
<th>Location</th>
<th>CRICOS code</th>
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<tbody>
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<td>C09018</td>
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Combined degrees

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<th>Fees per session</th>
<th>Intake</th>
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<th>CRICOS code</th>
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<td>C10123</td>
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<td>8</td>
<td>A$15,525</td>
<td>March</td>
<td>City and Moore Park</td>
<td>079758A</td>
</tr>
</tbody>
</table>

*Mid-year intake may be considered on a case-by-case basis by the faculty.

The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each.

Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.
UTS is Australia’s leader in social robotics. Professor Mary-Anne Williams, Director of the UTS ‘Magic Lab’ led a team to RoboCup, testing new algorithms and intelligent software against some of the world’s top universities.

“Social robots are not just automated problem-solvers, they have emotional and social intelligence that allows them to collaborate with people in safe, fluent and enjoyable ways to enhance the human experience.”
Our difference. Nothing will prepare you better than real industry experience. That’s why we offer hands-on, practice-based learning.

A step ahead. Theory is great, but hands-on experience sets you apart. Our industry partnerships enable us to offer you working knowledge throughout your degree. And you’ll study in world-class, purpose-built teaching spaces and laboratories.

Connections that count. Would access to more than 1,000 companies help your career to boom? Of course it would. UTS also has its own internship team to help you turn access into valuable work experience.

The world is watching. Put yourself in the right place from day one. We may be young, but we’re making our mark quickly. Among universities under the age of 50, UTS is already the No.1 ranked university in Australia and No.10 in the world. And you couldn’t study in a better location. 40% of Australia’s creative industry head offices call our neighbourhood home.

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.

VITALY KUZENKOV, RUSSIA
Bachelor of Science in Information Technology
Diploma in Information Technology Professional Practice
“I’ve gained so many skills during my studies at UTS. I have developed new technical skills, and programming, networking and IT skills. Through the subject Communications for IT Professionals my verbal and written communication skills improved greatly.

It’s extremely important to be able to work in teams and here at UTS we have a lot of group assignments so you need to cooperate with people and work in a team. Group work also requires leadership in order to organise the group, so I have actually developed my leadership skills too. Also, I’ve developed problem solving skills and analytical skills to critically analyse information. These are all team management skills which will help you succeed.”

RICHARD WHITE
WiseTech Global, CEO and Founder
“WiseTech Global has partnered with UTS for 14 years to help source talent and grow our business. UTS IT students bring passion, ability, intelligence and hard work during their internships and have contributed to the delivery of real systems for real world needs. Many of these students have gone on to become valued graduates with us. As we consider our IPO options, which others have speculated may be a $1 Billion+ valuation, I note the considerable impact UTS: IT students and graduates have had on our results.”

PAUL KENNEDY
Associate Professor, School of Software
Paul is the Deputy Head (Teaching and Learning) of the School of Software in FEIT, teaching and researching in data analytics. He teaches in data analytics, at undergraduate and postgraduate levels, both coursework and research students and in short courses.

The focus on his research is in data analytics of biomedical data, mainly collaborating with paediatric cancer researchers, since 2002, to better understand and predict treatment outcomes for childhood cancer sufferers.

uts.edu.au/staff/paul.kennedy

The Information Technology International Undergraduate Excellence Scholarships are valued at A$5000 and are offered to international students commencing either the Bachelor of Science in IT or the Bachelor of Science in Information Technology, Diploma in IT Professional Practice, and who meet the eligibility criteria.

For further information visit uts.edu.au/scholarships

All UTS courses periodically undergo review and changes may occur to ensure they meet industry standard, requirements and quality assurance. For the most up-to-date course information please visit the UTS Handbook (handbook.uts.edu.au).
Course description

This course offers a sound education in all aspects of computing science and information technology. It is intended for students who aspire to become researchers or who want a career in a more scientific-oriented computing area. As such it provides a pathway to postgraduate research study.

This course adopts a practice-based approach to computing science education and the course content is a mix of theory and practice with a stronger focus on the mathematics appropriate for computing science and research projects. As well as gaining strong technical skills in computing science and IT, students gain skills in problem solving, teamwork and communication. Students undertake research projects with UTS researchers. Employers look for graduates with strong computing science skills and, in this course, students are exposed to real research problems in computing science and IT.

UTS: Information Technology continues to support part-time study and some subjects can be taken in the evening as well as during the day.

Areas of study

Business information systems management, enterprise systems development, internetworking and applications, data analytics and artificial intelligence, interaction design, mathematical analysis, operations research, statistics.

Majors

Business information systems management, enterprise systems development, internetworking and applications, data analytics and artificial intelligence, interaction design, mathematical analysis, operations research, statistics.

Course structure

Business Information Systems Management major

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
</table>

Interaction Design major

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
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80
The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for the July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each. Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.

Internetworking and Applications major

Year 1
Introduction to Linear Dynamical Systems
Introduction to Statistics
Introduction to Information Systems
Programming Fundamentals
Introduction to Mathematical Analysis and Modelling
Discrete Mathematics
Business Requirements Modelling
Database Fundamentals

Year 2
Select one of the following:
- Networking Essentials
- Network Fundamentals
- Web Systems
- Applications Programming
- Computing Science Studio 1
- Theory of Computing Science
- Routing and Internetworks
- Security Fundamentals
- Web Services Development

Year 3
Mobile Networking
Data Structures and Algorithms
Computing Science Studio 2
Technology Research Preparation
Network Design
Internetworking Project
Select 12 credit points of options

Year 4
Technology Research Methods
Project Management and the Professional
Honours Project
Select 12 credit points from the following:
- Advanced Internet Programming
- WANs and Virtual LANs
- Mobile Applications Development
- e-Commerce
- Network Management Programming on the Internet
- Network Servers
- Applications Programming
- Mobile Computing Project
- Applying Network Security
- Cloud Computing Infrastructure
- Digital Forensics
- Cyber Security
- Application Development in the iOS Environment
- Internet of Things
Select 12 credit points of options

Enterprise Systems Development major

Year 1
Introduction to Linear Dynamical Systems
Introduction to Statistics
Introduction to Information Systems
Programming Fundamentals
Introduction to Mathematical Analysis and Modelling
Discrete Mathematics
Business Requirements Modelling
Database Fundamentals

Year 2
Select one of the following:
- Networking Essentials
- Network Fundamentals
- Web Systems
- Applications Programming
- Computing Science Studio 1
- Theory of Computing Science
Select 12 credit points from the following:
- Web Services Development
- Database Programming
- Software Architecture
- Enterprise Development with .NET
- Advanced Interaction Design
- Application Development with .NET
- Object-relational Databases
- Cloud Computing and Software as a Service
- Advanced Internet Programming
- Application Development in the iOS Environment
- Mobile Applications Development
- Fundamentals of Interaction Design
- Principles of Programming Languages
- Fundamentals of Interaction Design

Year 3
Data Structures and Algorithms
Computing Science Studio 2
Software Engineering Practice
Systems Development Project
Select 12 credit points of options

Year 4
Technology Research Methods
Project Management and the Professional
Select 12 credit points from the following:
- Web Services Development
- Database Programming
- Software Architecture
- Enterprise Development with .NET
- Advanced Interaction Design
- Application Development with .NET
- Object-relational Databases
- Cloud Computing and Software as a Service
- Advanced Internet Programming
- Application Development in the iOS Environment
- Mobile Applications Development
- Fundamentals of Interaction Design
- Principles of Programming Languages
Select 12 credit points of options

Honours Project
The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each. Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.
Statistics major

Year 1
Introduction to Linear Dynamical Systems
Introduction to Statistics
Introduction to Information Systems
Programming Fundamentals
Introduction to Mathematical Analysis and Modelling
Discrete Mathematics
Business Requirements Modelling
Database Fundamentals

Year 2
Select one of the following:
- Networking Essentials
- Network Fundamentals
- Web Systems
- Applications Programming
- Computing Science Studio 1
- Theory of Computing Science
- Linear Algebra
- Probability and Random Variables
- Regression Analysis

Year 3
Optimisation in Quantitative Management
Data Structures and Algorithms
Computing Science Studio 2
Technology Research Preparation
Sample Surveys
Advanced Statistical Modelling
Select 12 credit points of options

Year 4
Technology Research Methods
Project Management and the Professional
Select 6 credit points from the following:
- Design and Analysis of Experiments
- Programming for Data Analysis
- Advanced Bayesian Methods
- Honours Project
- Multivariate Data Analysis
- Select 12 credit points of options

Professional recognition
The Faculty of Engineering and Information Technology is seeking professional-level accreditation from the Australian Computer Society.

Career opportunities
Depending on the major selected, career options include software developer, systems analyst, data scientist or professional computing science researcher.

Bachelor of Science in Games Development

Course description
This course offers a sound education in all aspects of information technology and develops the diverse skills necessary for a career in computer games development.

Students 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; and an awareness of the principles of ethics and corporate governance in a variety of settings.

Areas of study
Computing and IT fundamentals, graphics, game design, animation, software engineering and systems development.

Sub-majors
Business information systems management, data analytics, enterprise systems development, interaction design, internetworking and applications, accounting for small business, advertising principles, business accounting, electronics and computer interfacing, employment relations, innovation, international management, international studies, introductory economics, language other than English (LOTE), marketing principles, physics, quantitative management, scientific computing, specialist country studies, statistical modelling.

Course structure

Year 1
- Web Systems
- Communication for IT Professionals
- Introduction to Information Systems
- Programming Fundamentals
- Business Requirements Modelling
- Applications Programming
- Networking Essentials
- Interactive Media

Year 2
- Introduction to Computer Graphics
- Database Fundamentals
- Introduction to Computer Game Design
- Select 6 credit points of electives
- Select 6 credit points from the following:
  - Computer Graphics Rendering Techniques
  - Introduction to Computer Game Programming
  - Programming for Special Effects
- Select 18 credit points of electives

Year 3
- Project Management and the Professional Game Design Studio 1
- Select 6 credit points from the following:
  - 3D Computer Animation
  - Data Structures and Algorithms
  - Advanced Interaction Design
- Select 6 credit points of electives
- Game Design Studio 2
- Select 18 credit points of electives

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

Career opportunities
Career options include computer animation/graphics specialist, and computer game designer/developer, systems analyst, analyst/programmer, IT project manager, software developer, software engineer or web developer.
### Bachelor of Science in Information Technology

**Course description**

This course offers a sound education in all aspects of computing and information technology for students who intend to make a career in the profession, as well as providing a pathway to honours, postgraduate study or a research career.

This course adopts a practice-based approach to IT education and the course content is a mix of theory and practice. As well as gaining strong technical skills in IT, students gain skills in business analysis, problem solving, teamwork and communication. Employers look for graduates with industry experience and, in this course, students are exposed to real IT problems.

UTS: Information Technology continues to support part-time study and some subjects can be taken in the evening as well as during the day.

**Areas of study**

Business information systems management, data analytics, enterprise systems development, interaction design, internetworking and applications.

**Majors**

Business information systems management, data analytics, enterprise systems development, interaction design, internetworking and applications.

**Sub-majors**

Business information systems management, computer graphics and animation, data analytics, enterprise systems development, internetworking and applications, accounting for small business, advertising principles, business accounting, electronics and computer interfacing, employment relations, innovation, international management, international studies, introductory economics, language other than English (LOTE), marketing principles, physics, quantitative management, scientific computing, specialist country studies, statistical modelling.

### Course structure

#### Business Information Systems Management major

**Year 1**
- Communication for IT Professionals
- Introduction to Information Systems
- Programming Fundamentals
- Web Systems
- Business Requirements Modelling
- Networking Essentials
- Collaborative Business Processes
- Select 6 credit points of electives

**Year 2**
- Database Fundamentals
- Information System Development Methodologies
- Finance and IT Professionals
- Innovations for Global Relationship Management
- Networked Enterprise Architecture
- Select 18 credit points of electives

**Year 3**
- Project Management and the Professional Business Process and IT Strategy
- Strategic IT Project
- Select 6 credit points from the following:
  - Systems Testing and Quality Management
  - IT Operations Management
  - Entrepreneurship and Commercialisation
- Select 24 credit points of electives

#### Data Analytics major

**Year 1**
- Communication for IT Professionals
- Introduction to Information Systems
- Programming Fundamentals
- Web Systems
- Business Requirements Modelling
- Networking Essentials
- Select 12 credit points of options

**Year 2**
- Database Fundamentals
- Introduction to Data Analytics
- Introduction to Linear Dynamical Systems
- Introduction to Statistics
- Select 12 credit points from the following:
  - Advanced Data Analytics
  - Object-relational Databases
  - Image Processing and Pattern Recognition
  - Database Programming
  - e-Business Trading
  - Data Visualisation and Visual Analytics
  - Analytics Capstone Project B
- Social and Information Network Analysis
- Select 12 credit points of options

**Year 3**
- Project Management and the Professional Analytics Capstone Project
- Select 12 credit points from the following:
  - Advanced Data Analytics
  - Object-relational Databases
  - Image Processing and Pattern Recognition
  - Database Programming
  - e-Business Trading
  - Data Visualisation and Visual Analytics
  - Analytics Capstone Project B
- Social and Information Network Analysis
- Select 24 credit points of options
### Enterprise Systems Development major

**Year 1**
- Communication for IT Professionals
- Introduction to Information Systems
- Programming Fundamentals
- Web Systems
- Business Requirements Modelling
- Networking Essentials
- Applications Programming
- Select 6 credit points of electives

**Year 2**
- Database Fundamentals
- Data Structures and Algorithms
- Fundamentals of Interaction Design
- Software Engineering Practice
- Systems Development Project
- Select 24 credit points of electives

**Year 3**
- Project Management and the Professional
- Select 6 credit points from the following:
  - Web Services Development
  - Database Programming
  - Enterprise Development with .NET
  - Advanced Interaction Design
  - Cloud Computing and Software as a Service
  - Mobile Applications Development
- Select 6 credit points from the following:
  - Web Services Development
  - Software Architecture
  - Application Development with .NET
  - Object-relational Databases
  - Advanced Internet Programming
  - Mobile Applications Development
  - Application Development in the iOS Environment
- Select 30 credit points of electives

### Interaction Design major

**Year 1**
- Communication for IT Professionals
- Introduction to Information Systems
- Programming Fundamentals
- Web Systems
- Business Requirements Modelling
- Networking Essentials
- Fundamentals of Interaction Design
- Select 6 credit points of options

**Year 2**
- Database Fundamentals
- Advanced Interaction Design
- Interactive Media
- Prototyping Physical Interaction
- Select 24 credit points of options

**Year 3**
- Project Management and the Professional
- Interaction Design Studio
- Select 12 credit points from the following:
  - Human-centred Design Methods
  - Introduction to Computer Game Design
  - Introduction to Computer Game Programming
  - Introduction to Data Analytics
  - Application Development in the iOS Environment
  - Application Development with .NET
  - Mobile Applications Development
  - Programming on the Internet
- Select 18 credit points of options

### Internetworking and Applications major

**Year 1**
- Communication for IT Professionals
- Introduction to Information Systems
- Programming Fundamentals
- Web Systems
- Business Requirements Modelling
- Networking Essentials
- Select 12 credit points of electives

**Year 2**
- Database Fundamentals
- Routing and Internetworks
- Security Fundamentals
- Web Services Development
- Mobile Networking
- Network Design
- Select 12 credit points of electives

**Year 3**
- Project Management and the Professional
- Select 6 credit points from the following:
  - WANs and Virtual LANs
  - Applications Programming
  - e-Commerce
  - Network Management
  - Programming on the Internet
  - Mobile Applications Development
  - Digital Forensics
  - Cyber Security
  - Internetworking Project
- Select 6 credit points from the following:
  - WANs and Virtual LANs
  - Mobile Applications Development
  - Advanced Internet Programming
  - Network Servers
  - Applying Network Security
  - Cloud Computing Infrastructure
  - Application Development in the iOS Environment
  - Cyber Security
  - Mobile Computing Project
  - Internet of Things
- Select 24 credit points of electives
Professional recognition
Graduates are eligible to apply for professional-level membership of the Australian Computer Society.

Career opportunities
Depending on the major selected, career options include business analyst, IT project manager, network specialist, software developer, systems analyst or web developer.

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

Course description
This course offers a sound education in all aspects of computing and information technology for students who intend to make a career in the profession, as well as providing a pathway to honours, postgraduate study and a research career.

The course adopts a practice-based approach to IT education. Its content is designed with a mix of theory and practice. As well as gaining strong technical skills in IT, students gain skills in problem solving, teamwork and communication. Employers look for graduates with industry experience and, in this course, students are exposed to real IT problems and apply classroom learning on the job through the Diploma in Information Technology Professional Practice.

UTS Information Technology continues to support part-time study with some subjects offered in the evening as well as during the day.

Areas of study
Business information systems management, data analytics, enterprise systems development, interaction design, internetworking and applications.

Majors
Business information systems management, data analytics, enterprise systems development, interaction design, internetworking and applications.

Sub-majors
Business information systems management, computer graphics and animation, data analytics, enterprise systems development, interaction design, internetworking and applications, accounting for small business, advertising principles, business accounting, electronics and computer interfacing, employment relations, innovation, international management, international studies, introductory economics, language other than English, marketing principles, physics, quantitative management, scientific computing, specialist country studies, statistical modelling.

Course structure

### Business Information Systems Management major

#### Year 1
- Communication for IT Professionals
- Introduction to Information Systems
- Programming Fundamentals
- Web Systems
- Business Requirements Modelling
- Networking Essentials
- Collaborative Business Processes
- Select 6 credit points of options

#### Year 2
- Database Fundamentals
- Information System Development Methodologies
- Finance and IT Professionals
- Innovations for Global Relationship Management
- Networked Enterprise Architecture
- Select 18 credit points of options

#### Year 3
- Career Management for IT Professionals
- IT Professional Experience 1
- Work Integrated Learning 1
- IT Professional Experience 2
- Work Integrated Learning 2
- IT Professional Experience 3
- Work Integrated Learning 3
- IT Professional Experience 4
- Work Integrated Learning 4
- IT Experience Reflection

#### Year 4
- Business Process and IT Strategy
- Project Management and the Professional
- Strategic IT Project
- Select 6 credit points from the following:
  - IT Operations Management
  - Systems Testing and Quality Management
  - Entrepreneurship and Commercialisation
- Select 24 credit points of options
### Data Analytics major

#### Year 1
- Communication for IT Professionals
- Introduction to Information Systems
- Programming Fundamentals
- Web Systems
- Business Requirements Modelling
- Networking Essentials
- Select 12 credit points of options

#### Year 2
- Database Fundamentals
- Introduction to Data Analytics
- Introduction to Linear Dynamical Systems
- Introduction to Statistics
- Select 12 credit points from the following:
  - Advanced Data Analytics
  - Object-relational Databases
  - Image Processing and Pattern Recognition
  - Database Programming
  - e-Business Trading
  - Data Visualisation and Visual Analytics
  - Analytics Capstone Project B
  - Social and Information Network Analysis
  - Select 12 credit points of options

#### Year 3
- Career Management for IT Professionals
- IT Professional Experience 1
- Work Integrated Learning 1
- IT Professional Experience 2
- Work Integrated Learning 2
- IT Professional Experience 3
- Work Integrated Learning 3
- IT Professional Experience 4
- Work Integrated Learning 4
- IT Experience Reflection

#### Year 4
- Project Management and the Professional
- Analytics Capstone Project
- Select 12 credit points from the following:
  - Advanced Data Analytics
  - Object-relational Databases
  - Image Processing and Pattern Recognition
  - Database Programming
  - e-Business Trading
  - Data Visualisation and Visual Analytics
  - Analytics Capstone Project B
  - Social and Information Network Analysis
  - Select 24 credit points of options

### Enterprise Systems Development major

#### Year 1
- Communication for IT Professionals
- Introduction to Information Systems
- Programming Fundamentals
- Web Systems
- Business Requirements Modelling
- Networking Essentials
- Applications Programming
- Select 6 credit points of options

#### Year 2
- Database Fundamentals
- Data Structures and Algorithms
- Fundamentals of Interaction Design
- Software Engineering Practice
- Systems Development Project
- Select 12 credit points of options

#### Year 3
- Career Management for IT Professionals
- IT Professional Experience 1
- Work Integrated Learning 1
- IT Professional Experience 2
- Work Integrated Learning 2
- IT Professional Experience 3
- Work Integrated Learning 3
- IT Professional Experience 4
- Work Integrated Learning 4
- IT Experience Reflection

#### Year 4
- Project Management and the Professional
- Select 6 credit points from the following:
  - Enterprise Development with .NET
  - Database Programming
  - Web Services Development
  - Mobile Applications Development
  - Advanced Interaction Design
  - Cloud Computing and Software as a Service
  - Select 6 credit points from the following:
    - Object-relational Databases
    - Advanced Internet Programming
    - Web Services Development
    - Mobile Applications Development
    - Application Development with .NET
    - Application Development in the iOS Environment
    - Software Architecture
  - Select 30 credit points of options
## Information Technology

### Interaction Design major

**Year 1**  
Communication for IT Professionals  
Introduction to Information Systems  
Programming Fundamentals  
Web Systems  
Business Requirements Modelling  
Networking Essentials  
Fundamentals of Interaction Design  
Select 6 credit points of options

**Year 2**  
Database Fundamentals  
Advanced Interaction Design  
Interactive Media  
Prototyping Physical Interaction  
Select 24 credit points of options

**Year 3**  
Career Management for IT Professionals  
IT Professional Experience 1  
Work Integrated Learning 1  
IT Professional Experience 2  
Work Integrated Learning 2  
IT Professional Experience 3  
Work Integrated Learning 3  
IT Professional Experience 4  
Work Integrated Learning 4  
IT Experience Reflection

**Year 4**  
Project Management and the Professional  
Interaction Design Studio  
Select 12 credit points from the following:  
- Human-centred Design Methods  
- Introduction to Computer Game Design  
- Introduction to Computer Game Programming  
- Introduction to Data Analytics  
- Application Development in the iOS Environment  
- Application Development with .NET  
- Mobile Applications Development  
- Programming on the Internet  
Select 18 credit points of options

### Internetworking and Applications major

**Year 1**  
Communication for IT Professionals  
Introduction to Information Systems  
Programming Fundamentals  
Web Systems  
Business Requirements Modelling  
Networking Essentials  
Select 12 credit points of options

**Year 2**  
Database Fundamentals  
Routing and Internetworks  
Security Fundamentals  
Web Services Development  
Mobile Networking  
Network Design  
Select 12 credit points of options

**Year 3**  
Career Management for IT Professionals  
IT Professional Experience 1  
Work Integrated Learning 1  
IT Professional Experience 2  
Work Integrated Learning 2  
IT Professional Experience 3  
Work Integrated Learning 3  
IT Professional Experience 4  
Work Integrated Learning 4  
IT Experience Reflection

**Year 4**  
Project Management and the Professional  
Select 6 credit points from the following:  
- e-Commerce  
- Network Management  
- WANS and Virtual LANs  
- Mobile Applications Development  
- Programming on the Internet  
- Applications Programming  
- Digital Forensics  
- Cyber Security  
- Internetworking Project  
Select 6 credit points from the following:  
- Mobile Computing Project  
- Advanced Internet Programming  
- WANS and Virtual LANs  
- Mobile Applications Development  
- Network Servers  
- Application Development in the iOS Environment  
- Applying Network Security  
- Cloud Computing Infrastructure  
- Cyber Security  
- Internet of Things  
Select 24 credit points of options

### Professional recognition

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

### Career opportunities

Depending on the major selected, career options include ICT business analyst, analyst/programmer, IT project manager, network specialist, software developer, software engineer, systems analyst or web developer.
The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each.

Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.

### Honours degrees

Applicants must have completed a UTS recognised bachelor’s degree in a relevant discipline at an appropriate level.

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Sessions</th>
<th>Fees per session</th>
<th>Intake</th>
<th>Location</th>
<th>CRICOS code</th>
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<td>C09019</td>
<td>Bachelor of Science (Honours) in Information Technology</td>
<td>2</td>
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### Combined degrees

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<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Sessions</th>
<th>Fees per session</th>
<th>Intake</th>
<th>Location</th>
<th>CRICOS code</th>
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<tr>
<td>C10219</td>
<td>Bachelor of Business Bachelor of Science in Information Technology</td>
<td>8</td>
<td>A$20,340</td>
<td>March</td>
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<td>C10239</td>
<td>Bachelor of Science in Information Technology Bachelor of Arts in International Studies</td>
<td>10</td>
<td>A$20,340</td>
<td>March</td>
<td>City</td>
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<tr>
<td>C10327</td>
<td>Bachelor of Science in Information Technology Bachelor of Creative Intelligence and Innovation</td>
<td>8</td>
<td>A$20,340</td>
<td>March</td>
<td>City</td>
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</tr>
<tr>
<td>C10245</td>
<td>Bachelor of Science in Information Technology Bachelor of Laws</td>
<td>10</td>
<td>A$21,180</td>
<td>March, July</td>
<td>City</td>
<td>064382G</td>
</tr>
</tbody>
</table>
International Studies

Bachelor of Arts in International Studies (combined degree)
Bachelor of Global Studies

IN 2017 THE UTS FACULTY OF ARTS & SOCIAL SCIENCES HAD:

- 6713 undergraduate coursework students
- 1585 international undergraduate coursework students
- 48 students go overseas on global exchange
Think big. Then think bigger. When you study at the UTS School of International Studies, you’ll be choosing a degree that opens doors to countless possibilities. This is where your global career begins.

WHY INTERNATIONAL STUDIES?
Best of both worlds. You can combine a Bachelor of Arts in International Studies degree with one of 29 other course offerings across UTS.

Spend a year abroad. Choose from 14 country majors for your one-year abroad at one of our 100+ partner institutions.

International immersion. Obtain cross-cultural abilities that help you operate within various cultural settings and develop innovative and adaptive thinking skills, which future employers value.

Build an international network. Combine overseas study opportunities with foreign language skills and start making global connections.

Don’t break the bank. When you set out on your year abroad, we’ll supplement your finances: We’ll even pay for your airfares and visa fees, so all you have to fund are your living and personal expenses.

WHY GLOBAL STUDIES?
Develop skills in creative thinking. Take a global approach to problem solving that integrates research, interdisciplinary perspectives and creative thinking.

Build professional skills in one of 5 major areas. Choose a major from Business, Communication, Health, Legal Studies or Management as part of your professional major for this degree.

A highly flexible degree. With recent employers increasingly looking for a broader skill-set in new graduates, our Global Studies degree allows you to customise one third of your degree with elective courses to suit your future career ambition.

50 hours internship. All Global Studies students put their understanding of global issues into practice in the workplace either through a (minimum) 50-hour domestic internship or an international intensive internship.

Build a global perspective. Try a session of exchange or an international intensive elective for a 3–4 week experience in Asia, Europe or the Americas that help prepare you for a future in the global workplace.

MANUEL ALEJANDRO GONZALEZ PEREZ, CHILE
Bachelor of Global Studies (Management Studies)
“I’m interested in acquiring a broad understanding of how the world works. I liked the topics, the subjects and the continuous learning in the course.

My internship placement was at Eclipse Travel. I mostly contributed to marketing content related to Latin American destinations. In the future I would like work with Non-Government Organisations.”

YUKE (YUKO) DU, CHINA
Bachelor of Global Studies (Management Studies)
“I chose Global Studies because I love learning different languages and about new cultures. Global Studies helps me to understand the differences between cultures and broadens my outlook, which is very helpful for me to keep the big picture in mind. It also provides opportunities for exchange to other countries and time overseas is a direct way to learn about a new culture and to meet the people around the world.

The people in this course more readily accept the differences between cultures and are willing to study different cultures, which makes me feel we are sharing a way to see the world. I can learn about the past world from history through different perspectives, the current world from the news and gain understanding from assignments, which is all from the course’s study. The teachers we have in this course help us a lot, not only within the subject area but also with pastoral care.”
Course description

The UTS Bachelor of Global Studies is a highly versatile, professionally-oriented Arts degree that takes the political, economic and cultural facets of globalisation as its core subject of inquiry. A major in business, management, communications, health or legal studies integrates the perspectives and skills from core subjects in a professional field of study to give students an industry focus. Students undertake either a domestic or international work placement to prepare them for professional life in a globalised workforce.

Core units of study allow students to draw connections between global phenomena and concrete local practices in work and life, seeing the opportunities and constraints that exist for different groups of people. The course engages students in complex problem solving regarding global processes and events.

Students may choose business, management, communications, health or legal studies and integrate the perspectives and skills from their professional major into their core subjects. Options available to study overseas on session-long exchange or short-term work and/or study placements, or to learn another language.

Areas of study

Political, economic and cultural aspects of global processes and institutions. Choice of professional major. Sub-major options in language other than English, specialist country studies, international studies or international exchange.

Majors

Business, communication, health, legal or management studies.

Sub-majors

Language other than English (LOTE); specialist country studies; international studies.

Course structure

**Year 1**
- Globalisation in Historical Perspective
- Contemporary Global Economy
- Cultures of Globalisation
- 12cp of professional major subjects
- 8cp of options

**Year 2**
- Global Governance
- 18cp of professional major subjects
- 32cp of options (including a possible session of global exchange for 24cp)

**Year 3**
- Global Problem Solving
- Global Work Project
- 18cp of professional major subjects
- 8cp of options

Career opportunities

Global Studies prepares students for a broad range of careers requiring flexible and adaptable professionals with international knowledge and experience. Many graduates pursue careers in government, policy or the not-for-profit/NGO sector. They also work in fields related to their professional major, such as in business or management with companies ranging from small start-ups to major multinationals.

Combined degrees

UTS International Studies also offers a Bachelor of Arts in International Studies packaged as a combined degree with bachelor's degrees from Business; Communication; Design, Architecture and Building; Education; Engineering; Information Technology; Law; Nursing; and Science. The duration of these combined degrees is either 5 or 6 years depending on the degree chosen. For more information, refer to the listing in the relevant partner study area.

The Bachelor of Arts in International Studies cannot be combined with the Bachelor of Global Studies.

Academic and additional requirements: See page 128

English language requirements: See page 129
Law

Law | Business law | Communication law | Creative intelligence and innovation law | Economics law | Engineering law | Forensics law | Information technology law | International studies law | Medical science law | Science law

IN 2017 THE UTS FACULTY OF LAW HAD:

1762 undergraduate coursework students
7 international undergraduate coursework students
48 students go overseas on global exchange
Join a top ranked program. UTS is ranked 40th for Law in the QS World University Subject Rankings 2018.

Gain an internationally recognised, practical and professionally relevant legal qualification. Paired with local admission requirements, our Bachelor of Laws (LLB) allows graduates to practise in jurisdictions such as Sydney, London, Paris, Bangkok, Singapore, Dubai, Tokyo, Delhi, Moscow, Beijing and Hong Kong.

Practical legal training – take the next step. Complete 75 days practical experience in a legal environment with the UTS accredited PLT Program*.

At the forefront of the technology revolution. Digital disruption is reshaping the legal sector – and at UTS Law, we’re ready for change. A first in Australia, our new Legal Futures and Technology major, available to all LLB and combined LLB students will prepare you for what the future holds.

A more just world for all. UTS has a focus on social justice. There are a range of student-centred initiatives on offer – join the Brennan Justice and Leadership Program, undertake applied human rights fieldwork overseas or participate in a global or local internship.

Work-ready and well rounded. Knowing the law and how to apply it is a core aspect of a comprehensive law degree. Our courses are built on a range of graduate attributes designed to prepare you for the world of work. You’ll learn to be professional, curious and self-motivated, and you’ll build skills in critical evaluation, collaboration and communication.

Improve your study skills with comprehensive mentoring programs, designed to support the needs of international law students.

Participate in fully funded national and international mooting competitions, as well as many other competitions designed to develop legal skills.

*UTS’s PLT Program is accredited with the NSW LPAB (Legal Profession Admission Board)

SAMANTHA LOW, MALAYSIA
Bachelor of Laws
Bachelor of Business

“I chose UTS because it’s got a reputation for being really innovative, which I found really interesting. Law is seen as very traditional, so I was very interested to see how UTS was going to change that and challenge the way we think about law.

I definitely think the structure of UTS suits me, with its practical approach to learning. The types of assignments we do are collaborative, and there’s a good balance of lectures and tutorials. I was involved in both my faculty societies: Law Students’ Society and The Business Society. I participated in a couple of competitions with Law Students’ Society, such as negotiations. That was fun, but also quite valuable for your resume and just getting the law experience before you’re in the workforce.

I think because it’s such a practical degree, we do get a lot of opportunities to develop our skills such as public speaking and group work. These skills have definitely helped me feel career-ready.”

HEMANT VIJAYKUMAR, AUSTRALIA
Bachelor of Laws
Bachelor of Medical Science

“Completing my research thesis was an achievement that was most rewarding during my time at UTS. I researched patent law in India and critically analysed a decision the Supreme Court controversially held in India. It was an area that I wanted to learn more about and being supervised by a leader in the profession aided that passion. At the end I was invited to present my thesis at the National Honours Conference at UTS.

Studying both medical science and law, I would love to be in-house counsel for a company in the pharmaceutical and medical device industry.”

More than 1850 UTS Law students participate in the Brennan Justice and Leadership program

All UTS courses periodically undergo review and changes may occur to ensure they meet industry standard, requirements and quality assurance. For the most up-to-date course information please visit the UTS Handbook (handbook.uts.edu.au).
Bachelor of Laws

Course description

This course teaches students foundational knowledge and skills in law and its practice. UTS: Law graduates are increasingly in demand in the legal profession and in other employment sectors where legal knowledge and skills are valued. Today’s law graduates are employable in a wide range of roles and responsibilities, including to advise and counsel parties, act as negotiators, manage project teams and resolve disputes.

This course provides full-time or part-time study for students wishing to obtain a professional legal qualification that satisfies the requirements for admission as a lawyer.

Students have the opportunity to engage in deeper study of the law by undertaking a number of law options and incorporate a broad variety of other disciplines by enrolling in options from other faculties.

Areas of study

Commercial law, corporate law, criminal law, contracts, dispute resolution, employment law, environmental law, family law, finance and banking law, health and medical law, human rights, industrial law, intellectual property, international law, legal theory, Indigenous knowledge, justice studies, public international law, remedies, torts, law and technology.

Majors

Legal futures and technology.

Course structure

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations of Law</td>
<td>Real Property</td>
<td>Public International Law</td>
<td>Practical Experience</td>
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<td>Ethics Law and Justice</td>
<td>Civil Practice</td>
<td>Corporate Law</td>
<td>Transactional Practice</td>
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<td>Criminal Law and Procedure</td>
<td>Commercial Law</td>
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<td>Legal and Professional Skills</td>
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<td>Contracts</td>
<td>Remedies</td>
<td>the following:</td>
<td>Litigation and Estate Practice</td>
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<td>Torts</td>
<td>Equity and Trusts</td>
<td>Jurisprudence</td>
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<td>Australian Constitutional Law</td>
<td>Administrative Law</td>
<td>Animal Law and Policy in</td>
<td>the following:</td>
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<td>Evidence</td>
<td>Australia</td>
<td>Options</td>
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<td></td>
<td></td>
<td>Judgment and the Rule of Law</td>
<td></td>
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<td></td>
<td>Gender and Law</td>
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<tr>
<td></td>
<td></td>
<td>Wickedness and Vice</td>
<td></td>
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<tr>
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<td></td>
<td>Law and Literature</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Criminology</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Advanced Property</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Indigenous Peoples and the Law</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Select 30 credit points from</td>
<td></td>
</tr>
<tr>
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<tr>
<td></td>
<td></td>
<td>Options (Law UG)</td>
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</tr>
</tbody>
</table>

Professional recognition

This course satisfies the requirements for admission to the Supreme Court of NSW as a lawyer provided students undertake the optional practical legal training program as part of the course or at the completion of the course. Check with the NSW Legal Profession Admission Board (LPAB) for time constraints.

Career opportunities

Career options include lawyer or legal policy adviser within a government or corporate department, private law firm or community law centre, or negotiating treaties or work in legislation drafting with the Attorney-General’s Department.
The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6–8 credit points each. Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.

### Combined degrees

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Sessions</th>
<th>Fees per session</th>
<th>Intake</th>
<th>Location</th>
<th>CRICOS code</th>
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<tr>
<td>C10125</td>
<td>Bachelor of Business Bachelor of Laws</td>
<td>10</td>
<td>A$21,180</td>
<td>March, July</td>
<td>City</td>
<td>008756B</td>
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<tr>
<td>C10378</td>
<td>Bachelor of Communication (Creative Writing) Bachelor of Laws</td>
<td>10</td>
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<td>March, July</td>
<td>City</td>
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<td>C10379</td>
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<td>C10380</td>
<td>Bachelor of Communication (Journalism) Bachelor of Laws</td>
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<tr>
<td>C10381</td>
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<td>C10382</td>
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<td>A$21,180</td>
<td>March, July</td>
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<tr>
<td>C10383</td>
<td>Bachelor of Communication (Social and Political Sciences) Bachelor of Laws</td>
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<td>A$21,180</td>
<td>March, July</td>
<td>City</td>
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<tr>
<td>C10386</td>
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<td>A$21,180</td>
<td>March, July</td>
<td>City</td>
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<tr>
<td>C10136</td>
<td>Bachelor of Engineering Science Bachelor of Laws</td>
<td>11</td>
<td>A$21,180</td>
<td>March, July</td>
<td>City</td>
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<td>C10391</td>
<td>Bachelor of Forensic Science Bachelor of Laws</td>
<td>10</td>
<td>A$21,180</td>
<td>March, July</td>
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<tr>
<td>C10129</td>
<td>Bachelor of Laws Bachelor of Arts in International Studies</td>
<td>10</td>
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<td>C10338</td>
<td>Bachelor of Laws Bachelor of Creative Intelligence and Innovation</td>
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<td>March</td>
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<td>C10131</td>
<td>Bachelor of Medical Science Bachelor of Laws</td>
<td>10</td>
<td>A$21,180</td>
<td>March, July</td>
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<tr>
<td>C10126</td>
<td>Bachelor of Science Bachelor of Laws</td>
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<td>A$21,180</td>
<td>March, July</td>
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<tr>
<td>C10245</td>
<td>Bachelor of Science in Information Technology Bachelor of Laws</td>
<td>10</td>
<td>A$21,180</td>
<td>March, July</td>
<td>City</td>
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</tr>
</tbody>
</table>
Science

Advanced science | Analytics | Advanced materials and data science | Chemistry | Applied physics | Biomedical physics | Biomedical science | Biotechnology | Chinese medicine | Environmental biology | Environmental sciences | Forensic science | Infection and immunity | Marine biology | Mathematics | Medical science | Medicinal chemistry | Nanotechnology | Pre-medicine | Statistics | Science

IN 2017 THE UTS FACULTY OF SCIENCE HAD:

3694 undergraduate coursework students
265 international undergraduate coursework students
24 students go overseas on global exchange
Our difference. Think of us as the innovator incubator. Our Science and Mathematics courses are taught by Australia’s foremost thinkers in world-class facilities.

Graduate with an edge. Now is the time to get the head start that will make your career go places faster. Learn to combine theory with communication and critical thinking. Then let us help you find an internship that will show the world what you have to offer.

Real-world experience. Conduct real-in-the-field scientific experiments. Solving real everyday problems through mathematical modelling. These are the extra things that stand out on CVs. That’s why we prioritise them.

More inspiration, less perplexity. Theory is great, but wouldn’t you rather learn from someone who’s actively engaged in cutting-edge projects? That’s what makes us stand out. Our lecturers are leaders in their fields, academics with a wealth of theoretical and professional expertise in both research and industry.

World-class facilities. Learn in award-winning facilities with access to a wealth of specialised teaching and research laboratories, including the Super Lab, Crime Scene Simulation Lab and Chinese Medicine Clinic. UTS is continuing to invest in science, with an extension of research and teaching facilities underway. We are also very excited about the redevelopment project of Building 2—not just for its distinctive exterior, but for what’s inside, which includes a super-sized science lab; new library; learning spaces; industry hub and career spaces.

Industry-driven research. Be part of a faculty whose research the world holds in high esteem. In the 2015 Excellence in Research for Australia (ERA) outcomes, UTS Science was rated at or above world standard in every discipline, with research in chemical sciences, material chemistry, environmental sciences and genetics receiving the highest possible score. You’ll also have the option of doing a research project as part of your elective subjects.

**UTS Science Diploma to Degree Award (UTS Insearch)**
UTS Science Diploma to Degree Award for Excellence (Polytechnics in Singapore)
UTS Science International Award for Australian Year 12 Qualifications
UTS Science International Award for Excellence (Undergraduate)
UTS Science International Award for Excellence (Postgraduate)

For more info visit sciencescholarships.uts.edu.au

The UTS Super Lab is the first of its kind in Australia, stretching 52 metres long (slightly bigger than a football field).

All UTS courses periodically undergo review and changes may occur to ensure they meet industry standard, requirements and quality assurance. For the most up-to-date course information please visit the UTS Handbook (handbook.uts.edu.au).
Bachelor of Advanced Science

Course description

The Bachelor of Advanced Science is designed specifically to develop student learning using an inquiry-oriented and research-immersion model. Students engage in a number of research project subjects based on their chosen major, which include advanced materials and data science; environmental biotechnology; infection and immunity; and pre-medicine. Students are placed with world-leading research scientists and learn ‘on the job’, actively mentored in research teams learning theory through real-time application and solving real-world problems. More than just a work placement, this course is a holistic learning experience designed to train the next generation of scientists.

- **Advanced Materials and Data Science major:** Modern civilisation depends upon natural and fabricated materials such as metals, textiles and materials for electronic components and devices. The next generation of advanced materials is key to solving many of society's needs, such as clean energy from solar cells, water purification, and materials that support health and security technologies. This major covers the three skills and knowledge areas essential for participating in this important technology space: the properties and development of materials; how to measure and test these properties using various experimental techniques; and how to design new materials using computer simulations. Data science is a new and exciting area of knowledge that is revolutionising materials science in how researchers conduct their work, and analyse the properties of materials and trends in their data to discover new materials and applications.

  * Mid-year intake may be considered on a case-by-case basis

- **Environmental Biotechnology major:** Humans are in a constant battle with microbes, both medically and environmentally. This major focuses on understanding how to manage microbes that impact upon the environments that we depend upon (including bioremediation, mine waste management), as well as using microbes to solve problems that can lead to commercial end products such as biofuels, pharmaceuticals, nutraceuticals or agricultural feedstocks. The diversity of microbes with novel traits is immense; a new style of scientist with a specialist background is needed to biopspect these habitats and identify which microbes can be used to solve environmental challenges. This major focuses on industrial applications of environmental biotechnology. Students develop advanced skills in bioinformatics, microbial ecology, as well as the fundamental sciences to prepare them for an exciting career in the ever expanding field of biotechnology, having a specific focus on environmental applications and solutions to the changing globe.

  * Mid-year intake may be considered on a case-by-case basis

- **Infection and Immunity major:** Now and in the future, one of the biggest global threats to human health and that of the environment is antibiotic resistance. That is, the resistance of micro-organisms to drugs that are used to treat serious infections, rendering these drugs ineffective. This major provides students with the skills and expertise to enable them to participate in the effort to address this urgent health problem. Students learn how micro-organisms cause infections, how the host prevents and responds to infection, and how to understand processes both in the microbe and the host that can be targeted in experimental applications for the diagnosis, treatment and protection against microbial infection. Students gain advanced experimental, analytical and computational skills in areas such as drug discovery, development of vaccines, drug synthesis, human immunology and antibiotic resistance. Students explore innovative ways to tackle the antibiotic resistance problem.

  * Mid-year intake may be considered on a case-by-case basis

- **Pre-Medicine major:** This major is distinguished by its strong focus on core topics where in the second and third years of study have a stronger coursework focus. Students are introduced to practices and theory that underlie both medical research and the health professions. The aim is to optimally prepare graduates for health professional careers.

Areas of study

Research methodologies and techniques, physics, mathematics, data science, advanced materials, optics, chemistry, biotechnology, biofuels, biology, human anatomy, pharmacology, physiology, parasitology, immunology.

Majors

Advanced materials, environmental biotechnology, infection and immunity, pre-medicine.

Course structure

**Infection and Immunity major**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1</td>
<td>General Microbiology</td>
<td>Select 12 credit points from the following:</td>
</tr>
<tr>
<td>Physical Aspects of Nature</td>
<td>Pharmacology 1</td>
<td>Immunology 2</td>
</tr>
<tr>
<td>Cell Biology and Genetics</td>
<td>Advanced Research Project 1</td>
<td>Clinical Bacteriology</td>
</tr>
<tr>
<td>Quantitative Skills for Science</td>
<td>Drug Discovery</td>
<td>Virology</td>
</tr>
<tr>
<td>Chemistry 2 (Advanced)</td>
<td>Immunology 1</td>
<td>Advanced Research Project 3</td>
</tr>
<tr>
<td>Molecular Biology 1</td>
<td>Select 12 credit points of electives</td>
<td>Select 6 credit points from the following:</td>
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<tr>
<td>Human Anatomy and Physiology</td>
<td>Advanced Research Project 2</td>
<td>Parasitology</td>
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<tr>
<td>Research Methods</td>
<td></td>
<td>Proteomics</td>
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<tr>
<td></td>
<td></td>
<td>Pharmacology 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select 12 credit points of electives</td>
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<tr>
<td></td>
<td></td>
<td>Advanced Research Project 4</td>
</tr>
</tbody>
</table>
Advanced Materials and Data Science major

**Year 1**
- Foundations of Physics
- Mathematical Modelling for Science
- Chemistry 1
- Chemistry and Materials Science
- Physics in Action
- Statistics and Mathematics for Science
- Chemistry 2 (Advanced)
- Research Methods

**Year 2**
- Linear Algebra
- Mathematics for Physical Science
- Select 6 credit points of electives
- Advanced Research Project 1
- Programming Fundamentals
- Quantum Physics
- Optics
- Advanced Research Project 2

**Year 3**
- Programming for Data Analysis
- Solid-state Science and Nanodevices
- Advanced Research Project 3
- Nanophotonics
- Select 18 credit points of electives
- Advanced Research Project 4

Environmental Biotechnology major

**Year 1**
- Chemistry 1
- Mathematical Modelling for Science
- Cell Biology and Genetics
- Physical Aspects of Nature
- Chemistry 2 (Advanced)
- Biocomplexity
- Integrating Business Perspectives
- Research Methods

**Year 2**
- Metabolic Biochemistry
- General Microbiology
- Advanced Research Project 1
- Bioinformatics
- Molecular Biology 1
- Select 12 credit points of electives
- Advanced Research Project 2

**Year 3**
- Biotechnology
- Medical Biotechnology
- Advanced Research Project 3
- Environmental Biotechnology
- Bioreactors and Bioprocessing
- Select 12 credit points of electives
- Advanced Research Project 4

Pre-Medicine major

**Year 1**
- Chemistry 1
- Cell Biology and Genetics
- General Microbiology
- Quantitative Skills for Science
- Chemistry 2 (Advanced)
- Physical Aspects of Nature
- Human Anatomy and Physiology
- Research Methods

**Year 2**
- Physiological Systems
- Metabolic Biochemistry
- Histology
- Human Pathophysiology
- Human Anatomy 2
- Select 12 credit points of electives
- Immunology 1

**Year 3**
- Pharmacology 1
- Neuroscience
- Clinical Features of Disease
- Human Anatomy 3
- Pharmacology 2
- Medical and Applied Physiology
- Select 12 credit points of electives

Career opportunities

Career options include positions in biotechnology, medicine, pharmaceuticals, vaccines, patent law and public health for the infection and immunity major. The pre-medicine major prepares students for postgraduate medicine, pharmacy, physiotherapy, health policy writing, health and medical writing, sales and technical support of medical devices, and the pharmaceutical and therapeutic goods industry. Study of advanced materials can lead to more traditional science-based research and development in government, defence and commercial laboratories; and financial modelling, management and other non-technical fields. Examples of positions in environmental biotechnology include industrial biotechnology for the energy sector (biofuel), agricultural sector (feedstock) and environmental management (phyto-remediation).

Bachelor of Biomedical Physics

**Course description**

The Bachelor of Biomedical Physics is a multi-disciplinary degree that combines both biomedical science with physics applications. Some of the most challenging and rewarding applications of physics are in the area of biomedical physics. There is a broad range of applications for biomedical physics in areas such as radiation oncology, medical imaging and radiation safety. Knowledge of biomedical physics can be applied to instrument development, from magnetic resonance imaging (MRI) to simple glucose monitors or therapeutic agents based on nanoparticles.

This course provides students with skills and expertise that equip them to participate in the rapidly growing area at the interface between physics and biomedicine. Students gain advanced experimental, analytical and computational skills as well as an understanding of how the body works at a cellular and organ level. Students explore the biomedical applications of physics, ranging from the use of nanoparticles as diagnostic and therapeutic agents to medical imaging and diagnostic instrumentation.

**Areas of study**

Physics, human anatomy, mathematics, imaging science, biomedical physics, nanotechnology, medical devices, quantum physics.

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The course structures outlined in this course guide are based on a March (Autumn) Intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each.

Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.

Course code: C10346
CRICOS code: 084271D
Course duration: 3 years
Number of credit points: 144
Intake: March, July
Location: City
Fees: $A$18,825 per session (see page 134 for further fees information)
Academic and additional requirements: See page 128
English language requirements: See page 129
Science

Course structure

Year 1
- Principles of Scientific Practice
- Chemistry 1
- Mathematical Modelling for Science
- Foundations of Physics
- Statistics and Mathematics for Science
- Human Anatomy and Physiology
- Physics in Action

Year 2
- Mathematics for Physical Science
- Applied Electronics and Interfacing
- Biomedical Physics Methodology
- Cell Biology and Genetics
- Imaging Science
- Quantum Physics
- Bionanotechnology
- Human Pathophysiology

Year 3
- Solid-state Science and Nanodevices
- Medical Imaging Technology
- Biomedical Physics Project
- Advanced Medical Device Technology
- Select 24 credit points of electives

Career opportunities

Career options include positions in radiation oncology, medical imaging, radiation safety, imaging technology and the medical instrumentation industry. The course also provides a pathway to postgraduate programs in medicine or medical physics.

Bachelor of Biomedical Science

Course description

The Bachelor of Biomedical Science provides a strong professional and industry focus. Students obtain a solid foundation in both biological and medical sciences, and practical experimentation through extensive theoretical knowledge and advanced laboratory skills.

This course provides in-depth understanding of how the body works at the cellular level, what causes disease and the techniques of laboratory diagnosis of disease, including the expanding area of molecular-based diagnostic techniques. Students gain the underpinning knowledge and laboratory skills required to participate in research aimed at the prevention or treatment of disease.

Areas of study

Biochemistry, cell biology, clinical microbiology, haematology, histology, anatomy, physiology, immunology, molecular biology, parasitology, pathology, diagnosis, laboratory, genetics, disease, histopathology, blood transfusion, research, stem cell, blood bank, autoimmunity, allergy, immunodeficiency, immunity, epidemiology, transplantation, serology, proteomics, genetic screening, diabetes, blood test, infection.

Course structure

Year 1
- Chemistry 1
- Cell Biology and Genetics
- Statistical Design and Analysis
- Principles of Scientific Practice
- Chemistry 2
- Biocomplexity
- Human Anatomy and Physiology
- Physical Aspects of Nature

Year 2
- General Microbiology
- Metabolic Biochemistry
- Histology
- Elective 1
- Molecular Biology 1
- Select 18 credit points from the following:
  - Analytical Biochemistry
  - Epidemiology and Public Health Microbiology
  - Immunology 1
  - Elective 3
  - Haematology 1

Year 3
- Elective 2
- Select 18 credit points from the following:
  - Molecular Biology 2
  - Clinical Bacteriology
  - Medical and Diagnostic Biochemistry
  - Haematology 2
  - Immunology 2
- Elective 4
- Select 12 credit points from the following:
  - Transfusion Science
  - Biochemistry, Genes and Disease
  - Parasitology
  - Anatomical Pathology

Career opportunities

Career options include positions in diagnostic medical laboratories, pharmaceutical, biomedical and biotechnology industries. Students may pursue a career in biomedical research in hospitals or other research institutes. Biomedical science also provides excellent preparation for entry into graduate medical degrees.
Bachelor of Biotechnology

Course description
The Bachelor of Biotechnology provides students with a broad knowledge of modern biotechnology and its applications. Algal biofuels, stem cell therapy and new methods of disease diagnosis are just a few projects that biotechnologists are working on today.

This course provides students with a good understanding of biological processes of living organisms and the skills required to naturally manipulate these processes in the development of new medicines, environmental management, data analysis and biosensor technology. Students gain broad knowledge of modern biotechnology and practical skills in ethics, law and business processes.

Biotechnology is the science of the future and graduates have high employment rates due to the course's strong professional and industry focus. Graduates of this course gain a professional qualification in biological science and a strong foundation in the commercial aspects of biotechnology.

Areas of study
Chemistry, cell biology and genetics, biocomplexity, human anatomy and physiology, microbiology, metabolic biochemistry, biotechnology, molecular biology, biobusiness, environmental biotechnology, immunology, bioreactors and bioprocessing, programming, imaging technology.

Majors
Medical biotechnology, environmental biotechnology, computational biotechnology, biosensor technology.

Course structure

Medical Biotechnology major

Year 1
- Principles of Scientific Practice
- Chemistry 1
- Cell Biology and Genetics
- Physical Aspects of Nature
- Molecular Biology 1
- Integrating Business Perspectives
- Immunology 1
- Human Anatomy and Physiology

Year 2
- Immunology 2
- General Microbiology
- Biotechnology
- Pharmacology 1
- Business and Organisational Strategy
- Intellectual Property Commercialisation
- Medical Devices and Diagnostics
- Pharmacology 2

Year 3
- Select 24 credit points of options
- Medical Biotechnology
- Bioreactors and Bioprocessing
- Business Strategy and Scenario Planning
- Biobusiness

Environmental Biotechnology major

Year 1
- Principles of Scientific Practice
- Chemistry 1
- Cell Biology and Genetics
- The Biosphere
- Molecular Biology 1
- Integrating Business Perspectives
- Biocomplexity
- Business and Organisational Strategy

Year 2
- Water Supply and Wastewater Engineering
- General Microbiology
- Biotechnology
- Statistical Design and Analysis
- Environmental Remediation
- Intellectual Property Commercialisation
- Environmental Chemistry
- Principles of Environmental Engineering

Year 3
- Select 24 credit points of options
- Environmental Biotechnology
- Bioreactors and Bioprocessing
- Business Strategy and Scenario Planning
- Biobusiness

Computational Biotechnology major

Year 1
- Principles of Scientific Practice
- Chemistry 1
- Cell Biology and Genetics
- Mathematical Modelling 1
- Molecular Biology 1
- Integrating Business Perspectives
- Programming Fundamentals
- Mathematical Modelling 2

Year 2
- Programming for Data Analysis
- General Microbiology
- Biotechnology
- Introduction to Data Analytics
- Introduction to Information Systems
- Intellectual Property Commercialisation
- Business and Organisational Strategy
- Advanced Data Analytics

Year 3
- Select 24 credit points of options
- Bioinformatics
- Bioreactors and Bioprocessing
- Business Strategy and Scenario Planning
- Biobusiness

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Science

Biosensor Technology major

Year 1
- Principles of Scientific Practice
- Chemistry 1
- Cell Biology and Genetics
- Mathematical Modelling 1
- Integration of Business Perspectives
- Human Anatomy and Physiology
- Physical Modelling

Year 2
- Business and Organisational Strategy
- Biotechnology
- Medical Imaging
- Molecular Nanotechnology
- Bionanotechnology
- Intellectual Property Commercialisation
- Immunology 1
- Medical Devices and Diagnostics

Year 3
- Select 24 credit points of options
  - Biosensors
  - Nanophotonics
  - Business Strategy and Scenario Planning
  - Biobusiness

Professional recognition

The faculty is awaiting recognition from AusBiotech for this course.

Career opportunities

Career options include positions in research, development and production in chemical, pharmaceutical, medical, biomedical, agricultural, environmental, energy, communications and manufacturing companies. Graduates could work in product development in a variety of industries including pharmaceuticals, agriculture, wineries or breweries, quality control in food and public health, drug research such as anti-cancer vaccines, defence technologies and the mining industry.

Bachelor of Environmental Biology

Course description

The Bachelor of Environmental Biology focuses strongly on ecosystem protection and management, and in practical experience undertaken during field excursions. Students are introduced to the latest findings by lecturers actively engaged in research solutions to environmental problems such as climate change and sustainability. Studies focus on the foundation components of the natural systems, how these systems work, and how detrimental impacts on them can be assessed and recovered.

This course gives students a thorough understanding of the way living organisms function in terrestrial and aquatic environments, acquisition of skills to study them and the ability to detect and assess detrimental effects on the environment such as climate change, pollution and human resource use. Students learn these skills and concepts through a dynamic combination of theory, field and laboratory experiences. Excursions undertaken in the seniors years are particularly valued for the opportunities they provide to consolidate knowledge, apply new skills and learning through experience.

Areas of study

Ecosystem assessment, ecology, environmental biology, ecosystem protection and management; pollution impacts on ecosystems; plant and wildlife ecology and management; statistics and experimental design; GIS and remote sensing, freshwater ecosystems.

Course structure

Year 1
- Chemistry 1
- The Biosphere
- Statistical Design and Analysis
- Principles of Scientific Practice
- Biocomplexity
- Physical Aspects of Nature
- Cell Biology and Genetics
- Environmental Chemistry

Year 2
- Geological Processes
- Experimental Design and Sampling
- Ecology
- Animal Behaviour and Physiology
- Plant Physiology and Ecophysiology
- Select 18 credit points of electives

Year 3
- GIS and Remote Sensing
- Wildlife Ecology
- Aquatic Ecology
- Biodiversity Conservation
- Stream and Lake Assessment
- Environmental Protection and Management
- Select one of the following:
  - Forest and Mountain Ecology
  - Semi-arid Ecology
  - Alpine and Lowland Ecology
- Select 6 credit points of electives

Professional recognition


Career opportunities

Career options in environmental sciences include positions as scientific officers, research scientists in organisations concerned with environmental protection, national parks and wildlife, water and coastal resources, CSIRO, and at universities in research, or as an environmental analyst and consultants. Graduates are also employed by local, state or Commonwealth agencies as education officers, environmental officers or managers of parks, reserves and bushland and consulting firms, as teachers at schools and TAFE, and in the private sector as environmental and sustainability consultants.
Bachelor of Forensic Science

Course description
The Bachelor of Forensic Science prepares students for professional and specialist work in the discipline of forensic science. Students build a solid foundation of skills and knowledge in the enabling sciences, complemented by an in-depth understanding of forensic science in the context of their chosen discipline. Development of critical thinking and problem-solving skills is a focus of the degree, with graduates in high demand from a diverse range of industries and organisations.

This course provides students with a thorough understanding of how forensic science can solve and prevent crime. This is a hands-on course using world-class facilities that are modelled on operational laboratories.

Students can choose from four majors: biology, chemistry, crime scene investigation, and digital forensics. The course is well-regarded with strong links to industries such as the federal and state police services, national and international forensic institutions, and government laboratories.

Students can combine this course with international studies (C10388), creative intelligence and innovation (C10389), or law (C10391).

Areas of study
Analytical chemistry, chemical criminalistics, chemistry and pharmacology of illicit drugs, crime scene investigation, forensic methods and theories, forensic toxicology, inorganic and organic chemistry, physical evidence, biochemistry, legal, scientific, casework, expert evidence, expert witness.

Majors
Biology, chemistry, crime scene investigation, digital forensics (March intake only).

Course structure

### Biology major

**Year 1**
- Chemistry 1
- Principles of Forensic Science
- Principles of Scientific Practice
- Mathematical Modelling for Science
- Chemistry 2
- Cell Biology and Genetics
- Forensic Statistics
- Forensic Imaging

**Year 2**
- Crime Scene Investigation
- General Microbiology
- Criminalistics
- Metabolic Biochemistry
- Molecular Biology 1
- DNA Profiling
- Select 12 credit points from the following:
  - Investigation of Human Remains
  - Bioinformatics
  - Bionanotechnology
  - Analytical Biochemistry
  - Epidemiology and Public Health Microbiology
  - Human Anatomy and Physiology

**Year 3**
- Electives (Science UG)
- Forensic Intelligence
- Complex Cases
- Forensic Research Project
- Next Generation Sequencing

### Chemistry major

**Year 1**
- Chemistry 1
- Principles of Forensic Science
- Principles of Scientific Practice
- Mathematical Modelling for Science
- Chemistry 2
- Cell Biology and Genetics
- Forensic Statistics
- Forensic Imaging

**Year 2**
- Crime Scene Investigation
- Organic Chemistry 1
- Analytical Chemistry 1
- Criminalistics
- Analytical Chemistry 2
- Organic Chemistry 2
- Chemical Criminalistics
- Select 6 credit points from the following:
  - Fire and Explosion Investigation
  - Inorganic Chemistry 1
  - Medicinal Chemistry
  - Introduction to Materials
  - Human Anatomy and Physiology

**Year 3**
- Select 24 credit points from the following:
  - Electives (Science UG)
  - Forensic Intelligence
  - Complex Cases
  - Forensic Research Project
  - Select 6 credit points from the following:
  - Chemistry and Pharmacology of Recreational Drugs
  - Fire and Explosion Investigation
  - Inorganic Chemistry 1
  - Medicinal Chemistry
  - Introduction to Materials
  - Human Anatomy and Physiology

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Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.
CSI major

Year 1
Chemistry 1
Principles of Forensic Science
Principles of Scientific Practice
Mathematical Modelling for Science
Chemistry 2
Cell Biology and Genetics
Forensic Statistics
Forensic Imaging

Year 2
Crime Scene Investigation
Foundations of Physics
Criminalistics
Organic Chemistry 1
Major Scene Investigation
Investigation of Human Remains
Select 6 credit points from the following:
- Chemical Criminalistics
- Fire and Explosion Investigation

Year 3
Select 24 credit points from the following:
- Electives (Science UG)
- Forensic Intelligence
- Complex Cases
- Forensic Research Project
- Advanced Imaging and Specialist Recovery

Digital Forensic major

Year 1
Web Systems
Principles of Forensic Science
Programming Fundamentals
Mathematical Modelling for Science
Network Fundamentals
Security Fundamentals
Forensic Statistics
Forensic Imaging

Year 2
Crime Scene Investigation
Cyber Security
Criminalistics
Digital Trace and Identity
Digital Forensics
Digital and Cyber Crime
Mobile Networking
Select 6 credit points from the following:
- Network Servers
- Cloud Computing Infrastructure

Year 3
Electives (Science UG)
Forensic Intelligence
Complex Cases
Forensic Research Project
Web Monitoring and Investigations

Professional recognition

Graduates of the Chemistry major are eligible for membership of the Royal Australian Chemical Institute and the Australian and New Zealand Forensic Science Society.

Career opportunities

Career options include positions in the police service, state and federal law enforcement agencies, government and private forensic or drug detection laboratories, customs, quarantine services, environmental protection agencies, pharmaceutical, chemical and analytical industries, DNA testing laboratories, medical diagnostic laboratories, hospitals or corporate multinationals providing forensic, medical or research services, digital forensic laboratories, scene of crime officers.

Bachelor of Health Science in Traditional Chinese Medicine

Course description

The Bachelor of Health Science in Traditional Chinese Medicine provides graduates with a professional entry level for the practice of acupuncture and Chinese herbal medicine. It aims to produce professional Chinese medicine practitioners with highly adaptable and practical clinical skills accompanied by a thorough grounding in theory.

The course has a strong history of delivering skilled practitioners and researchers, and is well regarded nationally and internationally. Opportunities exist for overseas clinical internships in the final year of study in Asia, including China (Chengdu University of Traditional Chinese Medicine and Hong Kong Baptist University) and South Korea (Dong Eui University). In addition students may pursue a six-year combined degree with a Bachelor of Arts in International Studies, learning Mandarin and studying in China for a year.

Areas of study

Acupuncture, anatomy, Chinese herbs, materials and formula, Chinese massage, clinical assessment and examination, practice management, diagnosis, pharmacology, physiology, philosophy of Chinese medicine, reflective practices, trigger point, complementary and alternative medicine, auricular acupuncture, laser acupuncture, electro acupuncture, channel, meridian, herbal medicine, clinical practice, research methods, critical thinking and aseptic technique.

Course structure

Year 1
Chinese Medicine Foundations 1
Point Location and Acupuncture Anatomy
Clinical Theory and Clinic Level 1
Communication for the Complementary Therapist
Introduction to Chinese Herbal Medicine
Chinese Medicine Foundations 2
Clinic Level 2 and Acupuncture Techniques 1
Human Anatomy and Physiology

Year 2
Chinese Diagnostic System 1
Clinic Level 3 and Acupuncture Techniques 2
Pharmacology of Chinese Herbal Medicine
Physiological Systems
Chinese Diagnostic System 2
Clinic Level 4 and Acupuncture Techniques 3
Chinese Herbal Formula 1
Human Pathophysiology

Year 3
Clinical Features of Disease
Clinic Level 5 and Acupuncture Microsystems
Chinese Herbal Formula 2
Neuroscience
Medical Classics and the History of Chinese Medicine
Clinical Practicum (Therapy and Diagnosis)
Clinic Level 6
Disease States for Traditional Chinese Medicine 1

Year 4
Evaluating TCM: Theory, Practice and Research 1
Disease States for Traditional Chinese Medicine 2
Clinical Practice 1 (TCM)
Professional Issues in Traditional Chinese Medicine
Evaluating TCM: Theory, Practice and Research 2
Clinical Practice 2 (TCM)
Professional recognition

The course is accredited by the Chinese Medicine Board of Australia and graduates are eligible for general registration as a Chinese herbal medicine and acupuncture practitioner, and for membership with most professional associations.

Career opportunities

Career options include self-employment in private practice or as part of an interdisciplinary clinical team. Opportunities exist in health care policy development and consultancy; research trial coordination; sales, marketing and product development for herbal and pharmaceutical companies; and community-based organisations with a health service focus.

Prior study

Inherent requirements are those fundamental skills a student must achieve to demonstrate essential learning outcomes and competencies of their course. Failure to meet the inherent requirements may result in a student not being able to satisfactorily complete their course and graduate.

Bachelor of Marine Biology

Course description

The Bachelor of Marine Biology focuses on how the marine environment works and how it can be better managed. It has a strong practical and field-based focus where students learn important concepts and skills.

This course gives students a thorough understanding of life in marine and aquatic environments, acquisition of skills to study them and the ability to detect and assess detrimental effects on marine environments such as climate change, pollution, remediation and human resource use. Students learn these skills and concepts through a combination of theory, field and laboratory experiences. Field trips undertaken in the later part of this course are particularly valued for the opportunities to practice the theory, knowledge and learn through experiencing the environment firsthand.

Areas of study

Animal behaviour, physiology, coral reef ecosystems, ecology, environmental protection and management, fisheries, GIS and remote sensing, temperate reef and fish ecology, soft sediment and seagrass ecology, ecosystem and statistical analysis, microbial ecology, oceanography, biogeochemistry, experimental design, estuarine ecology, marine conservation, ichthyology, climate change science, ecotoxicology.

Course structure

Year 1
Chemistry 1
The Biosphere
Statistical Design and Analysis
Principles of Scientific Practice
Biocomplexity
Physical Aspects of Nature
Cell Biology and Genetics
Environmental Chemistry

Year 2
Geological Processes
Experimental Design and Sampling
Ecology
Animal Behaviour and Physiology
Plant Physiology and Ecophysiology
Marine Communities
Select 12 credit points of electives

Year 3
GIS and Remote Sensing
Fisheries Resources
Aquatic Ecology
Coral Reef Ecosystems
Environmental Protection and Management
Marine Productivity and Climate Change
Select 12 credit points of electives

Professional recognition

Australian Marine Science Association

Career opportunities

Career options include positions in fisheries, national parks and wildlife, environmental protection, infrastructure, natural resources and planning both in government and industries. Graduates are also employed by local councils as environmental officers, in resource industries and consulting firms as research officers, CSIRO, universities and as teachers at schools.

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Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.
Bachelor of Medical Science

Course description
The Bachelor of Medical Science is designed for careers in medical and health-related sciences. It aims to produce professional medical scientists with highly adaptable and practical scientific skills accompanied by a thorough grounding in theory. It specialises in the human body's structure, function and disease processes at the cellular and whole organ level.

Students gain a good understanding of the human body's structure, function and disease processes at the cellular and whole organ level. The course provides the foundation knowledge and skills for students who wish to go on to postgraduate programs such as medicine, dentistry, pharmacy, public health and health administration. Pharmaceutical companies look to medical science graduates to work in areas such as drug registration and clinical trials.

Areas of study
Anatomy, physiology, cell biology, human diseases, medical devices, diagnostics, metabolic biochemistry, microbiology, molecular biology, genetics, neuroscience, pharmacology, drugs, medicine, immunology, haematology.

Course structure

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
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</thead>
<tbody>
<tr>
<td>Chemistry 1</td>
<td>Metabolic Biochemistry</td>
<td>Pharmacology 1</td>
</tr>
<tr>
<td>Cell Biology and Genetics</td>
<td>General Microbiology</td>
<td>Neuroscience</td>
</tr>
<tr>
<td>Statistical Design and Analysis</td>
<td>Physiological Systems</td>
<td>Elective 2</td>
</tr>
<tr>
<td>Principles of Scientific Practice</td>
<td>Elective 1</td>
<td>Elective 3</td>
</tr>
<tr>
<td>Chemistry 2</td>
<td>Molecular Biology 1</td>
<td>Pharmacology 2</td>
</tr>
<tr>
<td>Biocomplexity</td>
<td>Human Pathophysiology</td>
<td>Medical and Applied Physiology</td>
</tr>
<tr>
<td>Human Anatomy and Physiology</td>
<td>Select 12 credit points from the following:</td>
<td>Elective 4</td>
</tr>
<tr>
<td>Physical Aspects of Nature</td>
<td>Analytical Biochemistry</td>
<td>Medical Devices and Diagnostics</td>
</tr>
</tbody>
</table>

Career opportunities
Career options include positions in private and public hospitals, public health units, government departments, and biotechnology, health technology and pharmaceutical companies. Graduates also work as consultants, providing links with bodies such as state health departments and the Therapeutic Goods Administration.

Bachelor of Medicinal Chemistry

Course description
The Bachelor of Medicinal Chemistry is a practice-oriented degree that involves cutting-edge instrumentation, equipping students with the necessary skills for a career as a medicinal chemist.

This course equips graduates with skills to undertake the design, discovery and development of new drugs. The course is a research-inspired, transdisciplinary degree located at the intersection of chemistry, biology and pharmacology. Students develop a solid foundation in chemistry, mathematics and biology in their first year of study underpinning future studies. These topics are expanded further covering pharmacology and drug synthesis strategies in the latter years of study.

Areas of study
Cell biology, human anatomy, biochemistry, pharmacology, organic chemistry, medicinal chemistry, drug synthesis, metabolic biochemistry, analytical chemistry.

Course structure

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
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</thead>
<tbody>
<tr>
<td>Principles of Scientific Practice</td>
<td>Organic Chemistry 1</td>
<td>Metabolic Biochemistry</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>Physiological Systems</td>
<td>Pharmacology 1</td>
</tr>
<tr>
<td>Mathematical Modelling for Science</td>
<td>Physical Chemistry 1</td>
<td>Strategies in Drug Synthesis</td>
</tr>
<tr>
<td>Cell Biology and Genetics</td>
<td>Analytical Chemistry 1</td>
<td>Analytical Chemistry 3</td>
</tr>
<tr>
<td>Chemistry 2</td>
<td>Organic Chemistry 2</td>
<td>Pharmacology 2</td>
</tr>
<tr>
<td>Statistics and Mathematics for Science</td>
<td>Inorganic Chemistry 1</td>
<td>Select 18 credit points of options</td>
</tr>
<tr>
<td>Human Anatomy and Physiology</td>
<td>Medicinal Chemistry</td>
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<tr>
<td>Select 6 credit points of options</td>
<td>Analytical Chemistry 2</td>
<td></td>
</tr>
</tbody>
</table>
Professional recognition

Graduates are eligible for membership of the Royal Australian Chemical Institute (RACI).

Career opportunities

Career options include positions in pharmaceutical industries, biotechnology start-ups, clinical trials management and government regulatory authorities. This course offers graduates a pathway into careers of drug discovery from concept to delivery. Students can choose to work in the range of industries where they have the opportunity to interact with multidisciplinary teams involving pharmacologists, toxicologists, analytical chemists, microbiologists, and biopharmacists. The majority of jobs are with pharmaceutical companies, biotechnology start-ups, clinical trials management or government regulatory authorities.

Bachelor of Science

Course description

The Bachelor of Science gives students a solid foundation in scientific knowledge and practice while allowing them to specialise in an area of interest. Students may follow any of the nine different majors leading to the award of a degree naming the chosen major, e.g. Bachelor of Science in Nanotechnology, or Bachelor of Science in Medical Science, or any of the majors available. Majors are chosen at the end of first year when students have experienced a range of disciplines and are more equipped to choose their preferred path. Students may also choose not to follow a major, but to select a range of second- and third-year subjects to tailor their study according to their interests and graduate with a cross-disciplinary degree.

The flexibility of this course allows students to either specialise in a specific professional area or to develop skills and knowledge in a range of scientific disciplines. All majors aim to produce professional scientists with a thorough grounding in theory and highly adaptable and practical scientific, experimental and computational skills relevant to the discipline chosen.

Areas of study

Experimental design and analysis, probability, finance, modelling, toxicology, physical, organic and inorganic chemistry, bionanotechnology, nanofabrication, nanomaterials, optics, quantum physics, electron microscopy, thermodynamics, cell biology, genetics, estuarine and marine systems, environmental protection and management, fisheries and wildlife ecology, physiology of plants and animals, bioreactors, bioprocessing, haematology, immunology, parasitology.

Majors

Applied Physics, Biotechnology, Biomedical Science, Chemical Science, Chemistry, Environmental Sciences, Mathematics, Medical Science, Medical and Molecular Biosciences, Nanotechnology, Physics and Advanced Materials, Statistics, No specified major.

Course structure

Chemistry major

<table>
<thead>
<tr>
<th>Year 1</th>
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<th>Year 3</th>
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</thead>
<tbody>
<tr>
<td>Mathematical Modelling for Science</td>
<td>Organic Chemistry 1</td>
<td>Inorganic Chemistry 2</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>Skills for the Professional Chemist</td>
<td>Select 18 credit points from the following:</td>
</tr>
<tr>
<td>Foundations of Physics</td>
<td>Physical Chemistry 1</td>
<td>Forensic Toxicology</td>
</tr>
<tr>
<td>Principles of Scientific Practice</td>
<td>Analytical Chemistry 1</td>
<td>Strategies in Drug Synthesis</td>
</tr>
<tr>
<td>Chemistry 2</td>
<td>Organic Chemistry 2</td>
<td>Surface Processes</td>
</tr>
<tr>
<td>Statistics and Mathematics for Science</td>
<td>Inorganic Chemistry 1</td>
<td>Polymer Science</td>
</tr>
<tr>
<td>Physics in Action</td>
<td>Physical Chemistry 2</td>
<td>Analytical Chemistry 3</td>
</tr>
<tr>
<td>Select 6 credit points from the following:</td>
<td>Analytical Chemistry 2</td>
<td>Select 24 credit points of options</td>
</tr>
<tr>
<td>Cell Biology and Genetics</td>
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<tr>
<td>Introduction to Materials</td>
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<tr>
<td>Human Anatomy and Physiology</td>
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<tr>
<td>Environmental Chemistry</td>
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</table>

Applied Physics major

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
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</thead>
<tbody>
<tr>
<td>Mathematical Modelling for Science</td>
<td>Nanomaterials</td>
<td>Applied Electronics and Interfacing</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>Energy Science and Technology</td>
<td>Solid-state Science and Nanodevices</td>
</tr>
<tr>
<td>Foundations of Physics</td>
<td>Mathematics for Physical Science</td>
<td>Computational Physics</td>
</tr>
<tr>
<td>Principles of Scientific Practice</td>
<td>Advanced Mechanics</td>
<td>Nanophotonics</td>
</tr>
<tr>
<td>Chemistry 2</td>
<td>Quantum Physics</td>
<td>Scanning Probe and Electron Microscopy</td>
</tr>
<tr>
<td>Statistics and Mathematics for Science</td>
<td>Optics</td>
<td>Measurement and Analysis of Physical Processes</td>
</tr>
<tr>
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<td>Select 12 credit points of electives</td>
</tr>
<tr>
<td>Physics in Action</td>
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</tbody>
</table>

The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each.

Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.
## Science

### Biomedical Science major

<table>
<thead>
<tr>
<th>Year 1</th>
<th></th>
<th>Year 2</th>
<th></th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1</td>
<td></td>
<td>General Microbiology</td>
<td></td>
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</tr>
<tr>
<td>Cell Biology and Genetics</td>
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<td>Metabolic Biochemistry</td>
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</tr>
<tr>
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<td>Molecular Biology 2</td>
</tr>
<tr>
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<td>Elective 1</td>
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<tr>
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<td></td>
<td>Molecular Biology 1</td>
<td></td>
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<tr>
<td>Biocomplexity</td>
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<td>Select 18 credit points from the following:</td>
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</tr>
<tr>
<td>Human Anatomy and Physiology</td>
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<td>Analytical Biochemistry</td>
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<tr>
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<tr>
<td></td>
<td></td>
<td>Immunology 1</td>
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<td>Biochemistry, Genes and Disease</td>
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<td></td>
<td>Parasitology</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td>Anatomical Pathology</td>
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### Biotechnology major

<table>
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<th>Year 3</th>
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<tbody>
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<td>Elective 2</td>
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<td>Molecular Biology 2</td>
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<td>Biobusiness</td>
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<td>Elective 1</td>
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<td>Immunology 2</td>
</tr>
<tr>
<td>Chemistry 2</td>
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<td>Molecular Biology 1</td>
<td></td>
<td>Elective 3</td>
</tr>
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<td>Biocomplexity</td>
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<td></td>
<td>Bioreactors and Bioprocessing</td>
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<tr>
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<td>Transfusion Science</td>
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<tr>
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<td></td>
<td>Immunology 1</td>
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<td>Biochemistry, Genes and Disease</td>
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<tr>
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<td>Haematology 1</td>
<td></td>
<td>Parasitology</td>
</tr>
<tr>
<td></td>
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### Mathematics major

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<th>Year 3</th>
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</thead>
<tbody>
<tr>
<td>Introduction to Quantitative Management</td>
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<td>Linear Algebra</td>
<td></td>
<td>Advanced Calculus</td>
</tr>
<tr>
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<td>Optimisation in Quantitative Management</td>
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<tr>
<td>Introduction to Statistics</td>
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<td>Differential Equations</td>
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<tr>
<td>Regression Analysis</td>
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<td>Programming for Informatics</td>
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<tr>
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<td>Select 18 credit points from the following:</td>
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<td>Mathematical Methods</td>
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<tr>
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<td>Network and Combinatorial Optimisation</td>
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<td>Network and Combinatorial Optimisation</td>
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<tr>
<td></td>
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<td>Stochastic Processes</td>
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<td>Stochastic Processes</td>
</tr>
<tr>
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<td>Discrete Mathematics</td>
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<tr>
<td></td>
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<td>Sample Surveys</td>
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<tr>
<td></td>
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<td>Advanced Statistical Modelling</td>
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<tr>
<td></td>
<td></td>
<td>Select 12 credit points of options</td>
<td></td>
<td>Select 12 credit points of options</td>
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</table>

### Medical Science major

<table>
<thead>
<tr>
<th>Year 1</th>
<th></th>
<th>Year 2</th>
<th></th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry 1</td>
<td></td>
<td>Metabolic Biochemistry</td>
<td></td>
<td>Pharmacology 1</td>
</tr>
<tr>
<td>Cell Biology and Genetics</td>
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<td>General Microbiology</td>
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<td>Neuroscience</td>
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<tr>
<td>Statistical Design and Analysis</td>
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<td>Physiological Systems</td>
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<td>Elective 3</td>
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<tr>
<td>Principles of Scientific Practice</td>
<td></td>
<td>Elective 1</td>
<td></td>
<td>Elective 2</td>
</tr>
<tr>
<td>Chemistry 2</td>
<td></td>
<td>Molecular Biology 1</td>
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<td>Pharmacology 2</td>
</tr>
<tr>
<td>Biocomplexity</td>
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<td>Human Pathophysiology</td>
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<td>Medical Devices and Diagnostics</td>
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<td>Human Anatomy and Physiology</td>
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<td>Select 12 credit points from the following:</td>
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<td>Medical and Applied Physiology</td>
</tr>
<tr>
<td>Physical Aspects of Nature</td>
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<td>Analytical Biochemistry</td>
<td></td>
<td>Elective 4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Epidemiology and Public Health Microbiology</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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### Nanotechnology major

**Year 1**
- Mathematical Modelling for Science
- Chemistry 1
- Foundations of Physics
- Principles of Scientific Practice
- Statistics and Mathematics for Science
- Introduction to Materials
- Physics in Action

**Year 2**
- Mathematics for Physical Science
- Physical Chemistry 1
- Nanomaterials
- Biophotonics
- Quantum Physics
- Optics
- Select 12 credit points of electives

**Year 3**
- Applied Electronics and Interfacing
- Molecular Nanotechnology
- Solid-state Science and Nanodevices
- Surface Processes
- Nanophotonics
- Scanning Probe and Electron Microscopy
- Select 12 credit points of electives

### Statistics major

**Year 1**
- Introduction to Quantitative Management
- Principles of Scientific Practice
- Introduction to Linear Dynamical Systems
- Introduction to Statistics
- Regression Analysis
- Foundation subject choice B
- Introduction to Mathematical Analysis and Modelling
- Probability and Random Variables

**Year 2**
- Linear Algebra
- Optimisation in Quantitative Management
- Simulation Modelling
- Select 6 credit points of options
- Differential Equations
- Programming for Informatics
- Select 12 credit points from the following:
  - Sample Surveys
  - Advanced Statistical Modelling
  - Stochastic Processes

**Year 3**
- Advanced Calculus
- Select 6 credit points from the following:
  - Design and Analysis of Experiments
  - Programming for Data Analysis
- Select 6 credit points from the following:
  - Sample Surveys
  - Advanced Statistical Modelling
  - Discrete Mathematics
  - Sample Surveys
  - Advanced Statistical Modelling

### Environmental Sciences major

**Year 1**
- Principles of Scientific Practice
- Chemistry 1
- The Biosphere
- Statistical Design and Analysis
- Cell Biology and Genetics
- Physical Aspects of Nature
- Biocomplexity
- Environmental Chemistry

**Year 2**
- Ecology
- Experimental Design and Sampling
- Geological Processes
- Select 18 credit points from the following:
  - Animal Behaviour and Physiology
  - Environmental Remediation
  - Marine Communities
  - Plant Physiology and Ecophysiology
  - Microbial Ecology
- Select 12 credit points of electives

**Year 3**
- Select 18 credit points from the following:
  - Aquatic Ecology
  - Biodiversity Conservation
  - Fisheries Resources
  - GIS and Remote Sensing
  - Wildlife Ecology
- Select 18 credit points from the following:
  - Environmental Protection and Management
  - Stream and Lake Assessment
  - Coral Reef Ecosystems
  - Marine Productivity and Climate Change
  - Semi-arid Ecology
- Select 12 credit points of electives

### Career opportunities

Graduates are highly versatile as they can work in almost any industry such as biotechnology, biomedical science, medical science, marine biology, environmental monitoring and management, mathematics, statistical modelling, applied chemistry, applied physics, nanotechnology and material science. Graduates could be employed to analyse traffic flow, calculate the optimum distribution of branches for major banks, set rates of insurance premiums, analyse the consumer demand for products, be part of a medical team working on groundbreaking research, determine the effectiveness of new drugs, evaluate the environmental impact of pollution or provide advice on the stock market.
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Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.
Consumer Analytics major, all other sub-majors

Year 1
Introduction to Linear Dynamical Systems
Introduction to Quantitative Management
Introduction to Statistics
Regression Analysis
Marketing Foundations
Introduction to Mathematical Analysis and Modelling
Probability and Random Variables
Programming for Informatics

Year 2
Consumer Behaviour
Database Fundamentals
Linear Algebra
Design and Analysis of Experiments
Select 24 credit points from the following:
Electives (Science UG)
Operations Analysis
Risk Management
Financial Mathematics

Year 3
Marketing Research
Introduction to Data Analytics
Programming for Data Analysis
Select 6 credit points from the following:
e-Business Trading
Object-relational Databases
Database Programming
Sample Surveys
Advanced Statistical Modelling
Analytics Capstone
Select 6 credit points from the following:
e-Business Trading
Advanced Data Analytics
Object-relational Databases
Database Programming

Operations Analysis major, Operations Analysis Extension sub-major

Year 1
Introduction to Linear Dynamical Systems
Introduction to Quantitative Management
Introduction to Statistics
Regression Analysis
Managing People and Organisations
Introduction to Mathematical Analysis and Modelling
Probability and Random Variables
Programming for Informatics

Year 2
Database Fundamentals
Linear Algebra
Optimisation in Quantitative Management
Select 6 credit points from the following:
Business and Organisational Strategy
Global Operations and Supply Chain Management
Understanding Organisations: Theory and Practice
Select 12 credit points from the following:
Business and Organisational Strategy
Global Operations and Supply Chain Management
Understanding Organisations: Theory and Practice
Select 6 credit points from the following:
e-Business Trading
Object-relational Databases
Database Programming
Select 6 credit points from the following:
Discrete Mathematics
Advanced Calculus
Sample Surveys
Simulation Modelling
Differential Equations
Design and Analysis of Experiments
Advanced Statistical Modelling
Stochastic Processes

Year 3
Introduction to Data Analytics
Programming for Data Analysis
Select 6 credit points from the following:
Sample Surveys
Simulation Modelling
Select 6 credit points from the following:
Discrete Mathematics
Advanced Calculus
Sample Surveys
Simulation Modelling
Differential Equations
Design and Analysis of Experiments
Advanced Statistical Modelling
Stochastic Processes
Nonlinear Methods in Quantitative Management
Network and Combinatorial Optimisation
Analytics Capstone
Select 6 credit points from the following:
e-Business Trading
Advanced Data Analytics
Object-relational Databases
Database Programming

Operations Analysis major, all other sub-majors

Year 1
Introduction to Linear Dynamical Systems
Introduction to Quantitative Management
Introduction to Statistics
Regression Analysis
Managing People and Organisations
Introduction to Mathematical Analysis and Modelling
Probability and Random Variables
Programming for Informatics

Year 2
Database Fundamentals
Linear Algebra
Optimisation in Quantitative Management
Select 6 credit points from the following:
Business and Organisational Strategy
Global Operations and Supply Chain Management
Understanding Organisations: Theory and Practice
Select 24 credit points from the following:
Electives (Science UG)
Consumer Analytics
Risk Management
Financial Mathematics

Year 3
Introduction to Data Analytics
Programming for Data Analysis
Select 6 credit points from the following:
e-Business Trading
Object-relational Databases
Database Programming
Sample Surveys
Advanced Statistical Modelling
Analytics Capstone
Select 6 credit points from the following:
e-Business Trading
Advanced Data Analytics
Object-relational Databases
Database Programming
Risk Management major, Risk Management Extension sub-major

**Year 1**
- Introduction to Linear Dynamical Systems
- Introduction to Quantitative Management
- Introduction to Statistics
- Regression Analysis
- Fundamentals of Business Finance
- Introduction to Mathematical Analysis and Modelling
- Probability and Random Variables
- Programming for Informatics

**Year 2**
- The Financial System
- Database Fundamentals
- Linear Algebra
- Simulation Modelling
- Sample Surveys
- Select 12 credit points from the following:
  - International Financial Management
  - Investment Analysis
  - Corporate Finance: Theory and Practice
  - Issues in Corporate Finance
  - Investment Banking
  - Applied Portfolio Management
  - Derivative Securities
- Select 6 credit points from the following:
  - e-Business Trading
  - Object-relational Databases
  - Database Programming

**Year 3**
- Introduction to Data Analytics
- Design and Analysis of Experiments
- Programming for Data Analysis
- Advanced Statistical Modelling
- Analytics Capstone
- Select 6 credit points from the following:
  - e-Business Trading
  - Advanced Data Analytics
  - Object-relational Databases
  - Database Programming
- Select 12 credit points from the following:
  - Discrete Mathematics
  - Advanced Calculus
  - Optimisation in Quantitative Management
  - Differential Equations
  - Nonlinear Methods in Quantitative Management
  - Network and Combinatorial Optimisation
  - Stochastic Processes

Risk Management major, all other sub-majors

**Year 1**
- Introduction to Linear Dynamical Systems
- Introduction to Quantitative Management
- Introduction to Statistics
- Regression Analysis
- Fundamentals of Business Finance
- Introduction to Mathematical Analysis and Modelling
- Probability and Random Variables
- Programming for Informatics

**Year 2**
- The Financial System
- Database Fundamentals
- Linear Algebra
- Simulation Modelling
- Select 24 credit points from the following:
  - Electives (Science UG)
  - Consumer Analytics
  - Operations Analysis
  - Financial Mathematics

**Year 3**
- Introduction to Data Analytics
- Design and Analysis of Experiments
- Programming for Data Analysis
- Select 6 credit points from the following:
  - e-Business Trading
  - Object-relational Databases
  - Database Programming
- Select 6 credit points from the following:
  - e-Business Trading
  - Advanced Data Analytics
  - Object-relational Databases
  - Database Programming

Financial Mathematics maj, Financial Mathematics Extension smj

**Year 1**
- Introduction to Linear Dynamical Systems
- Introduction to Quantitative Management
- Introduction to Statistics
- Regression Analysis
- Fundamentals of Business Finance
- Introduction to Mathematical Analysis and Modelling
- Probability and Random Variables
- Programming for Informatics

**Year 2**
- The Financial System
- Advanced Calculus
- Linear Algebra
- Simulation Modelling
- Database Fundamentals
- Differential Equations
- Select 12 credit points from the following:
  - International Financial Management
  - Investment Analysis
  - Corporate Finance: Theory and Practice
  - Issues in Corporate Finance
  - Investment Banking
  - Applied Portfolio Management
  - Derivative Securities

**Year 3**
- Introduction to Data Analytics
- Optimisation in Quantitative Management
- Select 6 credit points from the following:
  - Object-relational Databases
  - Database Programming
- Select 6 credit points from the following:
  - e-Business Trading
  - Advanced Data Analytics
  - Database Programming
  - Programming for Data Analysis
- Stochastic Processes
- Analytics Capstone
- Select 12 credit points from the following:
  - Programming for Informatics
  - Sample Surveys
  - Nonlinear Methods in Quantitative Management
  - Network and Combinatorial Optimisation
  - Design and Analysis of Experiments
  - Advanced Statistical Modelling
Financial Mathematics major, all other sub-majors

**Year 1**
- Introduction to Linear Dynamical Systems
- Introduction to Quantitative Management
- Introduction to Statistics
- Regression Analysis
- Fundamentals of Business Finance
- Introduction to Mathematical Analysis and Modelling
- Probability and Random Variables
- Programming for Informatics

**Year 2**
- The Financial System
- Database Fundamentals
- Linear Algebra
- Simulation Modelling
- Select 24 credit points from the following:
  - Electives (Science UG)
  - Consumer Analytics
  - Operations Analysis
  - Risk Management

**Year 3**
- Introduction to Data Analytics
- Advanced Calculus
- Optimisation in Quantitative Management
- Select 6 credit points from the following:
  - Database Programming
  - Programming for Data Analysis
  - Differential Equations
  - Stochastic Processes
  - Analytics Capstone
  - Select 6 credit points from the following:
    - e-Business Trading
    - Advanced Data Analytics
    - Database Programming
    - Programming for Data Analysis

**Career opportunities**
Career options include positions in business intelligence, data science, business analytics, consumer analytics, marketing research, logistics management, financial and credit risk management, stock market analysis, portfolio management, option pricing, international money market analyst. Major employers include media and marketing companies, banks, insurance companies, superannuation providers, prominent consulting firms, government bodies such as APRA and ASIC, and other major financial bodies.

**Honours degrees**
Applicants must have completed a UTS recognised bachelor's degree in a relevant discipline at an appropriate level.

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>Sessions</th>
<th>Fees per session</th>
<th>Intake</th>
<th>Location</th>
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<tbody>
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<td>2</td>
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<td>March, July</td>
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<tr>
<td>C09022</td>
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<td>2</td>
<td>A$18,825</td>
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<tr>
<td>C09031</td>
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<td>A$18,825</td>
<td>March, July</td>
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<td>2</td>
<td>A$18,825</td>
<td>March, July</td>
<td>City</td>
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<td>A$17,735</td>
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<td>A$18,825</td>
<td>March, July</td>
<td>City</td>
<td>040707M</td>
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<tr>
<td>C09035</td>
<td>Bachelor of Science (Honours) in Applied Physics</td>
<td>2</td>
<td>A$18,825</td>
<td>March, July</td>
<td>City</td>
<td>040708K</td>
</tr>
<tr>
<td>C09023</td>
<td>Bachelor of Science (Honours) in Biomedical Science</td>
<td>2</td>
<td>A$18,825</td>
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<td>City</td>
<td>043284E</td>
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<tr>
<td>C09029</td>
<td>Bachelor of Science (Honours) in Environmental Science</td>
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<td>A$18,825</td>
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<td>C09020</td>
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<td>C09046</td>
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</table>

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Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

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The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for our July (Spring) intake. Students may be required to undertake elective subjects to complete their degree. Most subjects at UTS are valued at 6-8 credit points each.

Refer to the online handbook for the most up-to-date information and for specific information on available electives and their credit-point value (www.handbook.uts.edu.au).

Courses flagged with this icon include a work-based training component which must be undertaken as part of the course of study and refers to all clinical, professional and industrial or other work placements.

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Transdisciplinary Innovation

Bachelor of Creative Intelligence and Innovation | Bachelor of Technology and Innovation | Diploma in Innovation
An Australian first, the Faculty of Transdisciplinary Innovation (FTDi) offers degrees that encompass high-level critical and creative thinking, problem-solving, data and digital technologies, invention, complexity, innovation, future scenario building and entrepreneurship.

Degrees like no others. Become a lifelong innovator, entrepreneur, creative practitioner, technology thinker and change-maker. Designed for radical and curious thinkers, FTDi degrees at UTS will push the boundaries of your creative transdisciplinary thinking.

Learn to collaborate and innovate. Benefit from collaborative learning with multiple perspectives from a number of diverse fields. Integrate a world of industry experiences, real-world projects and self-initiated proposals to address complex challenges and untapped opportunities.

Get the critical competencies for the digital age. Courses are based on extensive research into the future economy and consultation with industry ensuring that students gain the adaptability, resilience and entrepreneurial spirit they need to thrive. Futurists predict that 50 per cent of the jobs in 2030 don’t yet exist and employment trends are already changing. The FTDi degrees are a direct response to industry demand for graduates working at the intersection of technology, creativity and innovation.

Accelerate your learning. Flexible options for learning about creativity, technology and innovation, either as a standalone degree, combined degree or alongside another. Be prepared for one-of-a-kind challenging experiences for future innovators.

Gain real world experience. Work alongside seasoned professionals from a wide variety of industries and take advantage of working with real clients, tackling real briefs in real time. Launch your professional career through completion of an internship in the final year of your BCII degree, or in the second year of your BTi degree.

Drive industry and social change. Engage with social practices, team-based conceptual thinking and emerging technologies to discover rare skills and mindsets. Go beyond the design-thinking and design-led-innovation to drive industry and social change.

Think differently. Get hands-on experience with current and emerging technologies, and apply your creative and technology skills to problem-solving challenges. Be part of a creative and innovative lab-learning environment with organised think-tanks, hackathons and hot-housing days. Experiment with creative methods and practices from across the disciplines.

LOUise MCWHINNIE
Dean, Faculty of Transdisciplinary Innovation

“As the challenges before us become even more complex, dynamic and networked, people with the capability to conceive of jobs that do not yet exist and to work with and across disciplines become highly prized as agents to envision and enact change. In forming the Faculty of Transdisciplinary Innovation, UTS has taken the lead in educating such remarkable people to lead change in what we already recognise as a new industrial revolution... in fact a new technological revolution, a revolution of work, ideas and of course education.”

SOPHIE PHILLIPS, AUSTRALIA
Bachelor of Business
Bachelor of Creative Intelligence and Innovation

“I decided to enrol in the Bachelor of Technology and Innovation in order to fuel my desire to create something meaningful and forward thinking, and it has not disappointed. Through deep exploration into emerging technologies and a broad array of team-based exercises that draw on the different talents possessed by people within my course, I have been able to explore technology in an interesting and exciting way. The course has impressed me with its ability to offer a look into many different types of technologies whilst also offering the choice for me to strengthen my knowledge in any area of my choosing.”

ALEX GEARING, AUSTRALIA
Bachelor of Technology and Innovation

“I decided to enrol in the Bachelor of Technology and Innovation in order to fuel my desire to create something meaningful and forward thinking, and it has not disappointed. Through deep exploration into emerging technologies and a broad array of team-based exercises that draw on the different talents possessed by people within my course, I have been able to explore technology in an interesting and exciting way. The course has impressed me with its ability to offer a look into many different types of technologies whilst also offering the choice for me to strengthen my knowledge in any area of my choosing.”

All UTS courses periodically undergo review and changes may occur to ensure they meet industry standard, requirements and quality assurance. For the most up-to-date course information please visit the UTS Handbook (handbook.uts.edu.au).
Bachelor of Technology and Innovation

Course description
This new degree is a direct response to industry demand for graduates equipped to work at the intersection of technology, creativity and innovation. Graduates of this course can engage in a broad range of technology-related careers. The course is also for students who have the desire to eventually become strategic influencers in technology-related roles.

Taking a transdisciplinary approach, the Bachelor of Technology and Innovation engages students with open, complex and networked problems and in doing so, enables them to develop the technological knowledge, practices, perspectives and strategies drawn from a diverse range of discipline areas. Extending their industry engagement, all students have the opportunity to undertake a carefully selected internship in the second year of the program, creating a tangible connection between the university learning environment and their future career aspirations.

Areas of study
A broad range of study areas ensure graduates possess the following personal, professional and intellectual capabilities: technological fluency and computational thinking; creating value in problem solving and inquiry; inter- and transdisciplinary practices; resilient practices within complex systems; imaginative and ethical citizenship.

Course structure

**Year 1**
- Technology Lab 1: Imagine and Create
- Project: Complex Challenges to Creative Possibilities
- Science Fiction: Making Futures
- Technology Lab 2: Connect and Network
- Project: Data-driven Design Challenges
- Creative Methods and Entrepreneurial Initiatives

**Year 2**
- Technology Lab 3: Exchange and Influence
- Project: Global Grand Challenges
- Complexity and Sustainable Futures
- Innovation Internship
- Select 12 credit points of options

**Year 3**
- Innovation Capstone: Research and Development
- Select 12 credit points of options
- Emergent Professional Practice
- Innovation Capstone: Realisation and Transformation

Career opportunities
Career options include technology fusionist; digital experience curator; intelligent system designer; technology policy advisor; innovation change manager; IoT architect; augmented reality designer; social entrepreneur.

Diploma in Innovation

Course description
The Diploma in Innovation is a new qualification created as a direct response to industry demand for graduates to work at the intersection of creativity, innovation and entrepreneurship.

Taking a trans-disciplinary approach, the course engages students with open, complex and networked problems. In doing so, attributes relating to complex systems thinking, creating value in problem-solving and inquiry, and imaginative and ethical citizenship are engendered. Students develop entrepreneurial and intrapreneurial capabilities as well as the ability to effectively employ interdisciplinary and transdisciplinary practices. These attributes and capabilities enable graduates to identify and develop solutions to some of the most complex issues that face their disciplines and society.

The first of its kind in Australia, this course allows students to gain exposure to real-world problems and collaborate with a diverse group of students, academics and industry partners, consolidating the course aims in their chosen area of study while developing the creativity, innovation and entrepreneurship skills sought by government, employers and society alike.

Areas of study
A broad range of study areas are selected to ensure graduates possess the following personal, professional and intellectual capabilities: creating value in problem solving and inquiry; inter- and transdisciplinary practices; resilient practices within complex systems; imaginative and ethical citizenship, entrepreneurship/intrapreneurship.

Career opportunities
Career options include employment or self-employment in the commercial or not-for-profit sectors associated with students’ chosen field of study and/or profession. This course helps students to: (i) prepare to be an entrepreneur, (ii) work directly for an entrepreneur, (iii) instigate entrepreneurial initiatives within corporate settings, or (iv) work within a corporation that helps entrepreneurial clients.
Combined degrees with the Bachelor of Creative Intelligence and Innovation (24 options)

Course description
Taking a trans-disciplinary approach, the Bachelor of Creative Intelligence and Innovation utilises multiple perspectives from diverse fields, integrating a range of industry experiences, real-world projects and self-initiated proposals, equipping graduates to address the wicked problems, complex challenges and untapped opportunities in today's world. This course can be combined with 24 bachelor's degrees.

By focusing on the high-level conceptual thinking and problem-solving practices that lead to the development of innovative, creative and entrepreneurial outcomes, students of the combined degree also gain leading edge capabilities that are highly valued in the globalised world, including dealing with critical and creative thinking, invention, complexity, innovation, future scenario building and entrepreneurship, as well as the ability to work on their own, across and between other disciplines. These creative intelligence competencies enable graduates to navigate across a rapidly changing world.

Course structure
Students must complete 240 credit points, comprising 144 credit points in the professional degree component and 96 credit points in creative intelligence and innovation. The creative intelligence and innovation subjects are undertaken in accelerated form within July and December/February (Summer) sessions during the first three years of study, and through one full year of study after completion of the professional degree. The Bachelor of Creative Intelligence and Innovation is not offered as a separate degree, but is completed only in combination with the professional degree program.

Year 1
Professional degree subjects
Mid-year session (July)
Problems to Possibilities
Summer session (December)
Creative Practice and Methods

Year 2
Professional degree subjects
Mid-year session (July)
Problems to Possibilities
Summer session (February)
Creativity and Complexity

Year 3
Professional degree subjects
Mid-year session (July)
Perl, Present, Future of Innovation
Summer session (December)
Initiatives and Entrepreneurship

Year 4
Envisioning Futures
Innovation Internship A
Industry Innovation Project
Professional Practice at the Cutting Edge
Creative Intelligence Capstone
Select one of the following:
Innovation Internship B
Speculative Start-Up
New Knowledge-making Lab

Industrial training/professional practice
Within the final year of the Bachelor of Creative Intelligence and Innovation, students can undertake between 6 and 12 credit points of internship (work experience) that relates to innovation within their research, career development, or core degree specialisations. For students undertaking 12 credit points of internship, international internships may be negotiated.

Career options
By being creative thinkers, initiators of new ideas, scenario planners, global strategists, open network designers or sustainable futures innovators within their chosen field of study, graduates maximise the potential of their chosen profession, making them highly sought after graduates with the ability to identify and develop solutions to some of the most complex issues that face their disciplines and society.
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At UTS Insearch, you’ll benefit from a combination of ongoing academic support, small class sizes and practical learning, designed to help you realise your full potential and give you the confidence to succeed at UTS.

The range of pathways that we offer to a UTS degree includes:

ENGLISH LANGUAGE PROGRAMS

Studying English with UTS Insearch means that you will be studying with one of the top English providers in Australia. We have more than 30 years’ experience in delivering quality English programs to international students.

We offer:
- **General English (Levels GE1-3)**
  CRICOS course code 032422B
- **Academic English (Levels AE1-5)**
  CRICOS course code 032410F

So, no matter what level of English you have, we have the English program for you.

**UTS FOUNDATION STUDIES**

This program is delivered by UTS Insearch on behalf of UTS and is specifically for international students who have completed their year 11 studies or equivalent. The program enables you to develop your English language proficiency, and develop broad knowledge and skill sets to become a well-rounded and confident graduate, ready to study at university. Completing the UTS Foundation Studies program opens doors to a wide range of study options and career choices and, for successful students, articulation into most first year undergraduate degrees at UTS*.

CRICOS course code 082432G (Standard Program) and 082433G (Extended)

**DIPLOMAS**

We offer diplomas across six exciting disciplines; all designed in consultation with the corresponding UTS faculties. Whether your study interest is business, communication, design & architecture, engineering, IT or science, our diplomas can lead you to second year** of a UTS undergraduate degree. All diplomas are offered over 2 semesters (Accelerated), 3 semesters (Standard) and 4 semesters (Extended).

The benefits of each are as follows:

**Accelerated (8 months/2 semesters)**
- This program is the fastest way to get into a UTS degree. However, the intense workload means that it will not be suitable for everyone.
- You will study the same content as first year UTS students.

**Standard (12 months/3 semesters)**
- You will study the same content as the Accelerated program but the work will be paced out over 12 months.
- As this diploma is set over 12 months, it allows you more time to perfect your academic studies while adjusting to Australian education expectations.

**Extended (16 months/4 semesters)**
- The workload in the first semester has been set at the right pace for you. You will have enough time to study hard and do well in your subjects, while settling into a new Australian home.
- You will study the same content as first-year UTS students, but in the first semester of this diploma, you will also undertake Academic English and a range of subjects designed to prepare you to succeed as you progress through your studies.

* Guaranteed entry into an undergraduate degree at UTS only if you achieve the required results.

# Successful completion of AE5 satisfies the English Language Admission requirements for most UTS Undergraduate and Postgraduate degrees.

* Guaranteed entry into the first year of an undergraduate degree at UTS only if you achieve the required results.

** The point where you enter into your UTS degree will depend on your major and is based on no more than two subject failures. Not all majors will take you into second year.
REASONS TO CHOOSE UTS INSEARCH

Guaranteed entry to UTS
Study a UTS Insearch diploma and when you successfully complete your studies, you’ll receive guaranteed entry into second year into the corresponding UTS undergraduate degree*.

Big in support. Small in size
Enjoy a range of support services freely accessible to all UTS Insearch students, including our Learning Support Program, one-on-one tutorials, study skills workshops, and full-time dedicated academic advisers.

Part of UTS
Our diplomas are designed in collaboration with UTS. This means the educational outcomes for diploma students are the same as for first year students studying a UTS undergraduate degree.

Latest technology and facilities
You’ll have access to high-tech lecture theatres and classrooms, an English Learning Centre and purpose built computer labs. As an academic student, you’ll have access to UTS facilities including the world-class library.

Leading the way
Our Leadership Program, valued at A$2,000, is offered to top performing international students and focuses on developing the skills needed for the Australian workplace. The program includes workshops and a work experience placement.

A better way to learn
You’ll develop life-long learning skills, not just course subjects. This prepares you to evolve and adapt to challenges and opportunities not just for today, but in the future.

Join the community
Our Activities Club is free for all UTS Insearch students and is a fun way to make new friends. Get involved in exciting activities, such as movie nights, barbecues, sports competitions, music, excursions and more.

Central location
You’ll love being close to everything you need. Not only will you be studying in the UTS precinct in the centre of Sydney, you’ll be near major transport hubs too. From convenient public transport to cafes, shops, theatres and nightlife, you’ll find everything you need for your study and leisure.

* The point where you enter into your UTS degree will depend on your major and is based on no more than two subject failures. Not all majors will take you into second year.

^ UTS Insearch 2017 articulation tracking report
JASON (TIANYANG) XIE, CHINA
UTS Insearch Diploma of Communication
Bachelor of Communication (Media Arts and Production)
Founder of AmazingLP
“When I arrived in Australia, critical thinking was one of my weakest skills. After completing my UTS Insearch diploma and then going on to study at UTS for four years, I’ve become a confident and proactive thinker. It’s an important skill to have when running your own company.”

KITTY KAN, HONG KONG
UTS Insearch Diploma of Communication
Bachelor of Communication (Public Communication)
Senior Brand Manager at Mattel
“The transition from UTS Insearch to UTS was a very smooth process. The skills that I learnt whilst studying the diploma could be applied whilst working towards my degree.”

RIYADH ALHABSHAN, SAUDI ARABIA
UTS Insearch Academic English Program
Master in International Law
Commercial Lawyer at Siemens
“Studying English at UTS Insearch enabled me to quickly develop understanding and speaking the language. I also picked up skills such as learning to work as part of a group, and presenting – in English, to my lecturers and classmates.”

High success rates.
Each year, over 90% of our diploma graduates are eligible for direct entry into the second year of a UTS degree.**

8, 12 or 16 month diplomas.
UTS Insearch diplomas are offered over 8 months (Accelerated), 12 months (Standard) and 16 months (Extended). Entry into our diploma programs will be based on your current academic and English levels and the pace of learning you wish to undertake.

Discover more about UTS Insearch diplomas.
For all details about entry and articulation requirements for this program please visit insearch.edu.au

** The point where you enter into your UTS degree will depend on your major and is based on no more than two subject failures. Not all majors will take you into second year.

^ Source: UTS Insearch 2017 Articulation Tracking Report

UTS INSEARCH DIPLOMA PROGRAMS
Guarantee your place in a UTS degree with a UTS Insearch diploma.

Pathways into UTS degrees.**
UTS Insearch diplomas are recommended for students who do not meet the academic and English entry requirements for direct entry to a UTS undergraduate degree.

FAST TRACK into second year of a UTS degree.**
UTS Insearch diplomas provide guaranteed entry into a UTS bachelor degree, provided you successfully complete the diploma with no more than two subject failures.

Designed in collaboration with UTS.
All UTS Insearch diplomas are designed in collaboration with UTS. This means that the educational outcomes for students undertaking a UTS Insearch diploma are, in most cases, equivalent to those of first year students studying a UTS undergraduate degree.

Six study areas on offer.
UTS Insearch diplomas are offered in the areas of Business, Communication, Design and Architecture, Engineering, Information Technology and Science.

Guarantee your place in a UTS degree with a UTS Insearch diploma.

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** The point where you enter into your UTS degree will depend on your major and is based on no more than two subject failures. Not all majors will take you into second year.

^ Source: UTS Insearch 2017 Articulation Tracking Report
WHICH PATHWAY IS RIGHT FOR YOU?

**Path 01**
- High School (Year 11 or equivalent)
- Academic English (if required)*
- UTS Foundation Studies 8 or 12 months
- UTS degree Year 1*

**Path 02**
- High School (Year 11 or equivalent)
- Academic English (if required)*
- UTS Foundation Studies 8 or 12 months
- Diploma 8, 12 or 16 months
- UTS degree Year 1 or Year 2*

**Path 03**
- High School (Year 12 or equivalent)
- Academic English (if required)*
- Diploma 8, 12 or 16 months
- UTS degree Year 1 or Year 2*

**Path 04**
- High School (Year 12 or equivalent)
- Academic English (if required)*
- UTS Undergraduate or Postgraduate degree**

*You will only be required to enter a UTS Insearch Academic English program if you do not meet the English language entry requirements.

^The point where you enter into your UTS degree will depend on your major and is based on no more than two subject failures. Not all majors will take you into second year.

#This pathway is only available if you achieve the required Grade Point Average (GPA).

**Successful completion of AE5 satisfies the English Language Admission requirements for most UTS Undergraduate and Postgraduate degrees. For specific details of UTS English entry requirements please refer to the individual faculty pages on the UTS website.

MAKE AN ENQUIRY WITH UTS INSEARCH TODAY

Website: insearch.edu.au
Tel: 1800 896 994 (within Australia)
Tel: +61 2 9218 8700 (outside Australia)
Fax: (02) 9281 9875
Email: courses@insearch.edu.au

**CRICOS CODES**

UTS INSEARCH CRICOS: 00859D
UTS CRICOS: 00099F

UTS INSEARCH Limited is a controlled entity of the University of Technology Sydney (UTS).

**UTS Foundation Studies (Standard)**
CRICOS course code: 082432G
UTS course code: C30019

**UTS Foundation Studies (Extended)**
CRICOS course code: 082433G
UTS course code: C30020

UTS Insearch is a registered non-self accrediting higher education institution and a pathway provider to UTS.

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Twitter: UTS_INSEARCH
YouTube: UTS_INSEARCH
LinkedIn: INSEARCH.EDU.AU/BLOG

International Undergraduate Course Guide 2019 127
MINIMUM ACADEMIC REQUIREMENTS
For entry into a UTS undergraduate course, you require a competitive pass in a recognised matriculation examination equivalent to an Australian year 12 qualification. As a general guide, competitive results in the following international examinations are accepted for entry. For detailed information about the academic requirements for courses by specific examinations, refer to the Course Summary Tables at the back of this publication (pages 136–145). Those who successfully complete a recognised pathway program are also eligible to apply.

Applications for some courses also require submission of a portfolio or a personal statement. If you do not meet the entry requirements, you may wish to consider studying a UTS pathway course through UTS Insearch (see page 124).

INTERNATIONAL EDUCATION QUALIFICATIONS
Bahrain: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

Bangladesh: Successful completion of at least one full-time year of a four-year bachelor degree at a recognised university or a completed 2 to 3 years bachelor degree at a recognised university.

Brazil: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution. Successful completion of Brazil National High School Exam (ENEM): The ENEM score is out of 1000 and is the average score (equally weighted) of the four subject areas and essay writing. Results below an ENEM score of 500 are not assessed.

Canada: Successful completion of the Ontario Secondary School Diploma with six University or University/college preparation courses. Qualifications from other provinces may also be acceptable.

Chile: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

China: Successful completion of the China National Entrance Examination (Gaokao) where the total score meets entry standard, or completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

Colombia: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

Fiji: Successful completion of the Foundation Program at the University of the South Pacific, OR successful completion of the Fijian Seventh Form Certificate, OR successful completion of Fiji year 13 certificate, OR completion of at least one full-time year at bachelor degree level at the University of the South Pacific, OR successful completion of matriculation to a New Zealand university.

Germany: Successful completion of the Abitur examination.

Hong Kong: Successful completion of the Hong Kong Diploma of Secondary Education (HKDSE) with the overall aggregate based on the five best Category A subjects. Grades for all subjects except for Mathematics are counted as follows: Level 5** and Level 5+=6, Level 5=, Level 4=, Level 3=, Level 2=, Level 1=.

Grades for Compulsory Mathematics are counted as follows: Level 5**, Level 5+=3, Level 5=2.5, Level 4=2, Level 3=1.5, Level 2=1, Level 1=0.5.

Grades for Extension Mathematics are counted as follows: Level 5**, Level 5+=4, Level 5=3.5, Level 4=3.0, Level 3=2.5, Level 2=2, Level 1=1.5.

India: Successful completion of the All India Senior School certificate examination (CBSE) (10+2) with overall grades in the best four academic subjects (externally examined subjects) where A1=5, A2=4.5, B1=3.5, B2=3.0, C1=2.0, C2=1.5, D1=1, D2=0.5, or successful completion of the Indian School Certificate Examination (10+2) awarded by the Council for Indian School Certificate Examinations (CISE) with an overall average of the marks gained in English and the best three elective subjects. Successful completion of the Higher Secondary School examinations from some state boards with a competitive pass may also be accepted.

Indonesia: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

International Baccalaureate: Award of the full International Baccalaureate diploma where the total aggregate score including bonus and penalty points meets entry standards.

Japan: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

Jordan: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

Kuwait: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

Malaysia: Successful completion of STPM with passes in a minimum of 3 Advanced Level subjects, where A=7, A=6, B=5, B=4, C=3, C+=2, C=1. Fail grades (F) or partial passes C-, D+ or D are not assessed or used to determine the ATAR equivalency. Advanced Level subjects must be taken in the same academic year.

Mexico: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

Nepal: Successful completion of at least one full-time year of a four-year bachelor degree at a recognised university or a completed 2 to 3 year bachelor degree at a recognised university.

Nigeria: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

New Zealand: Successful completion of the National Certificate of Education Achievement at a competitive standard.

Norway: Successful completion of the Norwegian Certificate of Completion of Upper Secondary School Examination or equivalent (Vitnemal).

Oman: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

Pakistan: Successful completion of at least one full-time year of a four-year bachelor degree at a recognised university or a completed 2 to 3 years bachelor degree at a recognised university.

Saudi Arabia: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.


Note: Please see the latest information on international education qualifications for UTS undergraduate courses here:
www.uts.edu.au/future-students/international/essential-information/entry-requirements
South Africa: Successful completion of South African National Senior Certificate or the Matriculation Certificate of the Joint Matriculation Board. Candidates must have been awarded the NSC and have met the minimum requirements for admission to higher education (Bachelor degree, Diploma or Higher Certificate) in South Africa. Both are indicated on the certificate.

South Korea: Successful completion of Korea Republic Senior High School Diploma (General or vocational) with an overall grade average in the final year, where A=4.0, B=3.0, C=2.0, D=1.0.


Taiwan: A Junior / community college diploma or Senior High School diploma plus completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

Thailand: Successful completion of the certificate of Secondary education (Matayom 6). Marks are out of 100 or GPA on a 4 point scale where A=4, B=3, C=2, D=1, F=0. Results in the Joint Higher education entrance examination or Joint entrance examinations of provincial universities are taken into account, if available.

The Philippines: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

Russia: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

United Arab Emirates: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

United Kingdom: GCE A levels – Aggregate is the sum of all Advanced level (A2) subjects taken in the same academic year and at most one Advanced level (A2) subject undertaken in the preceding or following academic year when both A2 level subjects were examined. If more than four subjects are presented, the best four subjects will be used. Completion of only three Advanced level (A2) subjects in the same academic year may also be accepted. Advanced Subsidiary results will not be included. From June 2017, the aggregate from the best four AL (A2) subjects will be calculated. At most one Applied A Level subject may be included in the best four subjects aggregate. Ranks are calculated on the basis that the Advanced level (A2) A* = 6, A=5, B=4, C=3, D=2, E=1.

USA: Successful completion of the highest level of Year 12 education in the country of study plus either successful completion of SAT1 (total of evidence-based reading, writing and math) at competitive standards or an approved associate/ship at a community / Junior college.

Vietnam: Successful completion of at least one full-time year at bachelor’s degree level at a recognised university or tertiary institution.

Other: UTS also accepts diplomas and advanced diplomas from Australian Qualifications Framework (AQF) recognised tertiary institutions in Australia, as well as most other Australian foundation studies programs.

ENGLISH LANGUAGE REQUIREMENTS

UTS has English language proficiency requirements for all its courses. Please check the requirements that apply to you.

Assessable qualification undertaken in English

You satisfy the UTS English language requirements if you have an assessable qualification that was undertaken in English from one of the following countries (refer to Special Requirements for Nursing courses)

- American Samoa
- Australia
- Botswana
- Canada
- Fiji
- Ghana
- Guyana
- Ireland
- Jamaica
- Kenya
- Lesotho
- Liberia
- New Zealand
- Nigeria
- Papua New Guinea
- Singapore
- Solomon Islands
- South Africa
- Tonga
- Trinidad and Tobago
- United Kingdom (including Northern Ireland)
- United States of America
- Zambia
- Zimbabwe

What is an assessable qualification?

Assessable qualifications from the countries listed above that may be accepted as satisfying English proficiency include:

- senior secondary studies comparable with the NSW HSC
- one full year of Australian or comparable tertiary studies, including RATE Associate Diploma and Advanced Diploma, Associate Degree, Bachelor degree and postgraduate studies
- comparable AQF Diploma and Advanced Diploma
- Australian or comparable non-award studies and tertiary preparation courses including NSW TAFE Tertiary Preparation Certificate (TPC), with a full-time equivalence of one year.

Completed a course taught in English

If you do not have an assessable qualification from one of the above countries but have successfully completed no less than the equivalent of one year of full-time study of a UTS recognised government accredited, public or private post- secondary/secondary course which is taught in English, equivalent to level of Australian Year 12 or higher, you may satisfy the UTS English language requirement by providing an official document from your institution on the institution letterhead certifying that the medium of instruction for your qualification was English (For undergraduate nursing courses refer to Special Requirements for evidence of medium of instruction for Nursing courses).

Other acceptable qualifications and English programs

The following are also recognised by UTS as meeting the English language requirements (For undergraduate nursing courses refer to Special Requirements for evidence of medium of instruction for Nursing courses):

- UTS Insearch Academic English Level 5 (AE5) – “Pass” for courses with an English language admission requirement of IELTS 6.5 with 6.0 in writing (or below)
- UTS Insearch Academic English Level 6 (AE6) – “Pass” for courses with an English language admission requirement of IELTS academic overall score of 7.0
- Australian TAFE (NSW) Certificate IV in English for Academic Purposes (EAP)
- High school English mark equal to or greater than 75% from Austria, Denmark, Finland, France, Germany, Sweden, the Netherlands, Norway or Switzerland
Admission requirements

- Successful completion of International Baccalaureate Diploma Program subjects English A: literature or English A: language and literature, where the Diploma Program was taught in a language other than English
- Cambridge Certificate of Proficiency in English (CPE):
  - for courses requiring an IELTS academic overall score of 7.5 – Overall score of 191–199.
  - for courses requiring an IELTS academic overall score of 7.0 – Overall score of 185–190.
  - for courses requiring an IELTS academic overall score of 6.5 – Overall score of 176–184.

Previous Education not conducted in English
If your previous education was not conducted in English you are required to demonstrate proficiency in English by completing an English language test or program recognised by UTS.

Detailed below are the English language results required to meet UTS English language requirements for entry into the respective courses.

For all combined courses the highest English language requirement test scores apply.

UNDERGRADUATE COURSEWORK

<table>
<thead>
<tr>
<th>UNDERGRADUATE</th>
<th>IELTS (ACADEMIC STRAND)</th>
<th>TOEFL (INTERNET-BASED)</th>
<th>PTE (ACADEMIC)</th>
<th>CAE</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Engineering and Information Technology courses</td>
<td>6.0 overall with a writing score of 6.0</td>
<td>60 – 78 overall with a writing score of 21</td>
<td>50 – 57</td>
<td>169 – 175</td>
</tr>
<tr>
<td>Bachelor of Nursing</td>
<td>6.5 overall with a writing score of 6.0</td>
<td>79 – 93 overall with a writing score of 21</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Bachelor of Design (Honours) in Animation</td>
<td>7.0 overall with a writing score of 7.0</td>
<td>94 – 101 overall with a writing score of 23</td>
<td>65 – 72</td>
<td>185 – 190</td>
</tr>
<tr>
<td>Bachelor of Arts</td>
<td>7.5 overall, speaking and listening score of 8.0 and reading and writing score of 7.0</td>
<td>102 – 109 overall with speaking, listening, reading score of 23 – 27 and writing score of 24</td>
<td>73 – 78 overall, with speaking and listening 79, reading and writing 65</td>
<td>191 – 199 with a writing score of 185</td>
</tr>
<tr>
<td>All other courses</td>
<td>6.5 overall with a writing score of 6.0</td>
<td>79 – 93 overall with a writing score of 21</td>
<td>58 – 64</td>
<td>176 – 184</td>
</tr>
</tbody>
</table>

For the most up-to-date information on English requirements visit www.uts.edu.au/future-students/international/essential-information/entry-requirements

The above information is correct as of the publication date and is subject to change.
ENGLISH LANGUAGE TESTS AND PROGRAM DETAILS

Academic English Program Level 5 (AE5) and Level 6 (AE6)
The Academic English Level 5 (AE5) and Level 6 (AE6) Program are offered by UTS Insearch as a pathway to UTS. The UTS Insearch CRICOS provider number is 00859D.

www.insearch.edu.au/Courses/English

International English Language Testing System (IELTS)
ielts@uts.edu.au
www.ielts.uts.edu.au

Test of English as a Foreign Language (TOEFL)
If you sit the TOEFL test, you must arrange for the official score report to be sent directly to UTS.
The UTS institutional code for TOEFL is 0743.
Note: The TOEFL Paper-based test (PBT) was phased out by TOEFL in 2017. UTS will continue to accept TOEFL PBT scores, provided the test was taken within the two years prior to applying to UTS.
www.ets.org/toefl

Pearson Test of English (PTE)
http://pearsonpte.com/the-test
http://pearsonpte.com/contact-us

Cambridge English: Advanced (CAE)
www.cambridgeenglish.org/help
www.cambridgeesol.org

SPECIAL REQUIREMENTS/CONSIDERATION

Special requirements for evidence of medium of instruction for Nursing courses
For the Bachelor of Nursing (C10122) and Bachelor of Nursing Bachelor of Arts in International Studies (C10123) degrees offered by the Faculty of Health, applicants with a secondary, vocational or higher education qualification where the applicant provides evidence that English was the medium of instruction, will be acceptable from the following countries to ensure compliance with the NSW Nurses and Midwives Board directive of 3 April 2007:
- Australia
- New Zealand
- United Kingdom (including the Republic of Ireland)
- United States
- Canada (Canadian documents would need to verify English as the language of instruction).

To ensure equivalence with the Universities Admissions Centre (NSW/ACT Pty Ltd) criteria published annually, and which are applied to all non-English-speaking background, overseas-born or overseas-educated applicants, the following countries are also deemed to be acceptable based on the applicants providing a medium of instruction letter.
- American Samoa
- Fiji
- Kenya
- Papua New Guinea
- Singapore
- Solomon Islands
- South Africa
- Zambia

If you have completed studies in English but they do not fulfill the above requirements, you will need to provide evidence of the results of a UTS recognised English language test. Please refer to the previous section Education was not conducted in English.

Special consideration for students sponsored through aid programs
Special consideration of English language requirements may be given to those students sponsored through aid programs (such as Australia Awards, World Bank, etc.), who need to demonstrate an IELTS Academic overall band score of 5.5, with a score of 5.0 in Academic Writing (or equivalent scores for all other recognised tests) and compulsory completion of 200 hours of English for Academic Purposes during their first 6 months in Australia, funded by the UTS host Faculty.

Note: In some countries the Australian embassy may have different English language requirements for those seeking a student visa. Check with your nearest Australian Diplomatic Post before registering for an English language test.

Other: UTS also accepts diplomas and advanced diplomas from Australian Qualifications Framework (AQF) recognised tertiary institutions in Australia as well as most other Australian foundation studies programs.

2019 ACADEMIC CALENDAR
The UTS academic calendar includes three teaching periods. In 2019, Autumn session will run from 18 February to 29 June 2019, Spring session from 22 July to 9 November 2019 and Summer session from 18 November 2019 to 29 February 2020. This includes an Orientation period for the Autumn and Spring sessions, which all students are encouraged to attend. A compulsory session for international students will be included as part of Orientation.

For courses that follow Calendar B, Autumn session will run from 18 February to 29 June 2019 and Spring session from 22 July to 30 November 2019. This includes a week-long Orientation period, which all students are encouraged to attend. A compulsory session for international students will be included as part of Orientation.

Our courses are scheduled to ensure students can progress through the standard Autumn and Spring teaching periods. UTS does not accept/offer an intake for commencing students in the 2019 Summer session.
How to apply

1. COMPLETE THE APPLICATION FORM
All international students must complete an international student application form and either:

LODGE ONLINE:
Please visit http://student.uts.apply.studylink.com
Login and register to apply online.

or SUBMIT a PAPER-BASED application:
Download an application form from here:
international.uts.edu.au

2. ATTACH NECESSARY DOCUMENTS
You must attach:
- a certified† copy of your academic records.
- a certified† copy of your English test score (or an official document stating that your previous education was conducted in English, see page 129)
- Documents not issued in English must be officially translated and submitted together with certified copies in the original language.
- a portfolio* or personal statement# (where applicable)
- A$100 application fee. If this is not included, your application will not be processed.

ONLINE: Scan your documents, save them to your computer and upload them with your online application at the “attach here” section. Once you have submitted your application online, you must copy your documents and send the certified† hard copies to UTS international. See the back cover of this guide for our postal and street address.

PAPER-BASED: Copy your documents and submit certified† copies with your application form. See the back cover of this guide for our postal and street address.

3. SUBMIT YOUR APPLICATION

ONLINE: - Check that you have completed all sections; then agree to the Terms & Conditions and pay your application fee online.
- Submit your application.

PAPER-BASED: - Submit your application to a UTS Representative at an education event
- Submit your application to one of our agents or representatives worldwide. For their contact details, visit: international.uts.edu.au

APPLICATION CLOSING DATES:
- Autumn session (February/March start) Applicants based outside Australia: 30 November Applicants based in Australia: 15 December
- Spring session (July start) Applicants based outside Australia: 30 April Applicants based in Australia: 31 May

4. APPLICATION OUTCOME

ONLINE: After submitting your application, you’ll receive immediate acknowledgement by email.

PAPER-BASED: You will receive an email acknowledging receipt of your application approximately one week after it has been received by UTS.

The acknowledgement you receive will include a UTS application number which you should keep and refer to in any future correspondence with UTS International. The application process usually takes around four to six weeks, once we’ve received all of your documents. UTS International will advise you by email of your application outcome.

5i. REQUEST FOR ADDITIONAL INFORMATION
If your documents are insufficient for assessment, you will receive a request for additional information by email.

5ii. CONDITIONAL LETTER OF OFFER
If your application is approved but there are conditions you still need to satisfy, you will receive a conditional Letter of Offer by email. Once these conditions have been met, you will receive an unconditional offer by email.

5iii. LETTER OF OFFER
If you have met all specific requirements you will receive an unconditional Letter of Offer by email.

6. ACCEPT YOUR OFFER
You will receive information on how to accept your offer with your Letter of Offer.

UTS reserves the right to withdraw an offer of admission or Confirmation of Enrolment (CoE) in cases where an applicant has not provided true and complete information for admission to a course or where UTS is not satisfied that the student meets the Genuine Temporary Entrant and/or Genuine Student requirements set by the Department of Home Affairs.

† See Certification of Documentation on page 133. * See page 133. # See page 133
SIMPLIFIED STUDENT VISA FRAMEWORK (SSVF)

UTS participates in the Australian Government’s Simplified Student Visa Framework (SSVF), and recruits students into its degree courses under the SSVF arrangements of the Department of Home Affairs. The SSVF is designed to make the process of applying for a student visa simpler for genuine students.

International students apply for a single student visa (subclass 500) regardless of their chosen course of study. When you are granted a visa under SSVF you must continue to maintain enrolment in an eligible course, and continue to have sufficient financial capacity to support your study and stay in Australia.

All student visa (subclass 500) holders must maintain enrolment at the same level or a higher Australian Qualification Framework (AQF) level for which they were granted a visa, unless they are undertaking a doctoral degree (AQF10) and transfer to a master’s degree (AQF9). Transferring to a lower AQF level course or transferring from an AQF level course to a non-AQF Award course is a breach of the student visa condition and might result in the visa being cancelled.

You must take this important information into account when choosing a course and if considering a course change or a move to another provider.

For more information about student visas, visit the Department of Home Affairs website at homeaffairs.gov.au

† CERTIFICATION OF DOCUMENTATION

UTS will accept copies certified by employees of one of the following:
- Australian Overseas Diplomatic Mission
- UTS Authorised Representative or Agent
- Public Notary Office
- the Administration of the Institution that issued the relevant document
- an Australian University

Alternatively, documents verified by someone who is currently employed in Australia as:
- an accountant – members of the Institute of Chartered Accountants in Australia, or the Australian Society of Certified Practising Accountants, or the National Institute of Accountants, or the Association of Taxation and Management Accountants or Registered Tax Agents
- a bank or credit union manager
- a barrister, solicitor or patent attorney
- a police officer with the rank of sergeant and above
- a post office manager
- a principal of an Australian secondary college, high school or primary school
- a commissioner for declarations
- a Justice of the Peace where the registration number is clearly indicated

What does correctly certified mean?
Correctly certified means that your original document has been sighted and the copy has been sworn to be a true copy of the original by one of the authorised people mentioned above. Please note that scanned documents or photocopies will not be accepted.

# The personal statement (approx. 500 words) should be written by you and should:
- describe your educational experience to this point and how it has prepared you for studying this course
- indicate your knowledge and interest in the area in which you plan to study
- outline your expectations of the course for which you are applying
- reflect on any work (paid or voluntary) you have undertaken – you may also wish to include details of your work history
- mention anything else about you that will help us assess your application

Portfolio
Students who apply for a design course may need to submit a portfolio. If required, you will be contacted with further details.

USEFUL LINKS & INFORMATION

AIRPORT SHUTTLE SERVICE
UTS International offers a complimentary airport shuttle service from the airport to UTS (or a convenient CBD location) for students arriving in the two weeks prior to Orientation. Visit uts.edu.au/future-students/international/commencing-students/arriving-and-settling to find out more.

ORIENTATION
Start your UTS experience with all the information you need by participating in UTS’s comprehensive Orientation program. For details visit orientation.uts.edu.au
TUITION FEES
Tuition fees vary greatly between courses at UTS. Tuition fees must be paid in advance each session. Textbooks and other course materials are additional expenses.

The fees for any session are determined by the number of credit points being undertaken in that session. Unless noted, the quoted session tuition fee assumes you will enrol in a standard 100 per cent credit point load for your chosen course, which is normally 24 credit points per session. Your actual session course cost may differ from this figure depending on the course and the number of credit points taken per session.

Fees listed are correct for 2019 only and subject to an increase each calendar year. All fees listed are for 24 credit points in a session unless otherwise stated.

For detailed information about tuition fees for UTS courses and the UTS Fees and Refund Protocol, visit: uts.edu.au/future-students/international/essential-information/fees-information/

STUDENT SERVICES AND AMENITIES FEE
Australian Universities charge a Student Services and Amenities Fee (SSAF) to support the maintenance of a range of student services at universities. At UTS, the SSAF funds provide support to Students’ Association sponsored activities such as the second-hand bookstore, the UTS Union food, beverage and retail outlets and student clubs, UTS services supporting skills and language development, and the UTS Student Legal Centre.

The SSAF is applicable for all international students. You will be required to pay the SSAF in each session in which you enrol and the fee will be due after the census date of each session. The SSAF is non-refundable after census date. To give you an estimate of the cost, in 2018 the SSAF was A$149 per session for fulltime students (those with a study load of 18 credit points and above per session). The SSAF will be subject to an annual government set indexation increase.

For further information go to: uts.edu.au/current-students/managing-your-course/fees-and-payment/student-services-and-amenities-fee-ssaf

HEALTH COVER
You are required to have Overseas Student Health Care (OSHC) for the entire time that you are in Australia on a student visa. It is also a visa condition and your responsibility as a student to purchase and maintain this health cover throughout your stay in Australia.

OSHC is insurance to assist international students meet the costs of medical and hospital care that they may need while in Australia. OSHC will also pay limited benefits for pharmaceuticals and ambulance services. Medibank is the UTS preferred provider for OSHC, but you may purchase OSHC from an authorised provider of your choice. The cost of cover may differ between insurers and the plan you choose. Please note that you will need to submit evidence of your OSHC arrangements when you lodge your visa application with the Department of Home Affairs.

For further information, please see: medibankoshc.com.au/uts homeaffairs.gov.au

ACCOMMODATION AND LIVING COSTS
For a guide to accommodation and living costs for living in Sydney, please turn to page 25 of this guide.

CREDIT RECOGNITION (FORMERLY KNOWN AS RECOGNITION OF PRIOR LEARNING – RPL)
Your prior learning may be considered for credit towards a UTS graduate coursework program where the prior learning is related to assessable components of the course. For example, you may be granted:

- exemption from studying a specific subject within your UTS course if you can prove that you have previously studied a subject equivalent to a required UTS subject
- general advanced standing for a specific number of subjects if you can prove your prior studies are relevant to your UTS course, but do not directly correspond to specific subjects in the course
- automatic credit if the subject and version required for your current course has been completed as part of another UTS course

Note: Determination of eligibility for credit recognition towards a particular course does not imply or guarantee that a place is available in that course for the particular applicant.

Applying for Credit Recognition
Submit your application for credit recognition along with your International Student Application form.

The following documents must be attached to your application:
1. A fully completed application for credit recognition form available online at: uts.edu.au/future-students/international/essential-information/credit-recognition
2. Certified copy of academic transcript(s)
3. Certified copies of official subject outlines

For each subject exemption sought, you must provide a subject outline with the following details:
- the year the subject outline is relevant to
- this must be the same year in which you passed the subject
- the topics covered in the subject
- number of hours of class time
- the method of assessment used
- textbooks required

A paragraph from an institution’s calendar or handbook is not sufficient. Inadequate outlines will not be accepted.

Subject outlines must be in English. If subject outlines have been translated into English, they must be certified and stamped as translated by a professional translator.
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Note: Fees listed are correct for 2019 only and are subject to an increase each calendar year. The published fee is based on 24 credit points per session. Please see UTS website for fee details. To find the latest information about your course, please search here: [www.uts.edu.au/future-students](http://www.uts.edu.au/future-students)
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Note: Fees listed are correct for 2019 only and are subject to an increase each calendar year. The published fee is based on 24 credit points per session. Please see UTS website for fee details. To find the latest information about your course, please search here: www.uts.edu.au/future-students
### Course Summary Tables

#### Engineering (continued)

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* Admission requirements: For applicants applying for the 2yr BN program with 24 credit point recognition, their degree must have been completed within eight years of their commencement of the program and must be a health-related degree. All other applicants must meet the requirements for admission to a bachelor program.

*Mid-year (Jul) intake may be considered on a case-by-case basis by the faculty*
### INFORMATION TECHNOLOGY

**BACHELOR OF SCIENCE**

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### LAW

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## SCIENCE (CONTINUED)

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Note: Fees listed are correct for 2019 only and are subject to an increase each calendar year. The published fee is based on 24 credit points per session. Please see UTS website for fee details. To find the latest information about your course, please search here: www.uts.edu.au/future-students
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<td>Mar</td>
<td>83.10</td>
<td>497</td>
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<td>520</td>
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<td>Bachelor of Design in Animation Bachelor of Creative Intelligence and Innovation</td>
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<td>497</td>
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**TRANSDISCIPLINARY INNOVATION (CONTINUED)**

**STUDY ABROAD PROGRAM**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Program</th>
<th>Course Duration (Session)</th>
<th>Course Fee (A$/Session)</th>
<th>Course Intake</th>
<th>ATAR</th>
<th>Minimum Entry Requirements: Successful completion of one full year of study at a recognised university.</th>
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<tbody>
<tr>
<td>C50006</td>
<td>Study Abroad Undergraduate Program (1 session)</td>
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<td>Mar/Jul</td>
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<td>C50009</td>
<td>Australian Language and Culture Studies Program (1 session)</td>
<td>1</td>
<td>$9,888</td>
<td>Mar</td>
<td></td>
<td>Minimum entry requirements are as follows: The Australian Language and Culture Program Studies allows students who do not meet the English language requirements for Study Abroad or Exchange to study one to two sessions at UTS if they meet the English language proficiency level of IELTS 5.0 - 6.0 or equivalent.</td>
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<tr>
<td>C50009</td>
<td>Australian Language and Culture Studies Program (2 sessions)</td>
<td>2</td>
<td>$9,888</td>
<td>Mar</td>
<td></td>
<td>Minimum entry requirements are as follows: The Australian Language and Culture Program Studies allows students who do not meet the English language requirements for Study Abroad or Exchange to study one to two sessions at UTS if they meet the English language proficiency level of IELTS 5.0 - 6.0 or equivalent.</td>
</tr>
</tbody>
</table>

*Mid-year (Jul) intake may be considered on a case-by-case basis by the faculty

Note: Fees listed are correct for 2019 only and are subject to an increase each calendar year. The published fee is based on 24 credit points per session. Please see UTS website for fee details. To find the latest information about your course, please search here: [www.uts.edu.au/future-students](http://www.uts.edu.au/future-students)
Each university has its own terminology, grading system and calendar. To make it as easy as possible for you to use this course guide, we have defined some of our key terms below. If you require further information, visit our website international.uts.edu.au or contact us at international@uts.edu.au.

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**Academic adviser:** a member of academic staff in a specific faculty who advises students to ensure they satisfy academic progression requirements.

**Admission:** the process of applying for, being made an offer to, accepting the offer of admission and being admitted to a course or program of study at the university.

**Advanced standing:** see Credit recognition.

**Assumed knowledge:** additional prior knowledge specified by some courses as part of the entry requirements. This prior knowledge is often gained in specific subjects (such as physics or chemistry), or it may have been obtained elsewhere. If you do not have the required assumed knowledge, you may still be accepted, but a bridging course may be required.

**Campus:** the university grounds, including the buildings.

**Combined degree:** the opportunity to concurrently study two programs from different academic areas and graduate with two degrees.

**Course:** an award course or non-award study or any part of such program of study offered by the University into which students are admitted, e.g. Master of Business.

**Credit point:** the unit of measure of workload for individual subjects (allocated based on the amount of work required in that subject). Credit points are gained by students enrolled in award courses when subjects are passed. When accumulated, credit points form one measure of the total requirements of a course. Most subjects at UTS are 6 to 8 credit points each.

**Credit recognition:** (also known as ‘advanced standing’, ‘recognition of prior learning’ and in some cases referred to as ‘exemption’ or ‘credit’) is the granting of credit to students for their previous learning for credit towards a course.

**CRICOS code:** CRICOS stands for Commonwealth Register of Institutions and Courses for Overseas Students. CRICOS code is an official code given to a course and institution to confirm that it is registered to be offered to international students.

**Distance mode:** is a teaching method that does not require students to attend classes on campus. Instead, distance mode students access their subject materials online or receive them by post. International students undertaking distance mode courses cannot obtain a student visa to study the course in Australia.

**Electives:** some courses allow you to choose elective subjects outside your core study area as part of your course. Not all electives are available each session. Due to timetabling you may not always get your first choice electives.

**English language requirements:** To be eligible for admission into a postgraduate course, you must demonstrate proficiency in written and spoken English if your previous education was not conducted in English. Please see pages 136–145 for specific English language requirements for each course. Subject to change.

**Fees:** are charged per credit point, and the cost of each credit point will depend on the course you are studying (see uts.edu.au/future-students/international/essential-information/fees-information for the most up-to-date information on fees). The fees in this course guide have been calculated based on a 24 credit point session in 2019, unless otherwise stated.

**Lectures:** classes that are taught in large groups, usually conducted in lecture halls. The lecturer will provide students with course material, which is often later discussed and debated in smaller tutorial groups.

**Major:** an area you choose to specialise in during your studies. Your course will be structured around a sequence of subjects that form this major. Students can choose other unrelated subjects to undertake in conjunction with majors subjects, but cannot graduate unless the criteria of their chosen major is met.

**Pre-requisite:** one or more units of subject/s, specified by the faculty board that a student must already have completed before being eligible to enrol in a particular unit or course.

**Recognition of prior learning (RPL):** see Credit recognition.

**Sessions:** the blocks of time during which classes run on campus. At UTS, an academic year has three sessions. Autumn session runs from February/March to July, Spring session from July to November and Summer session from November to March.

**Sub-major:** a group of subjects which, alongside the major, will form the structure of your course. The sub-major works the same way as your major in that there will be a specific number of required credit points that need to be met.

**Subjects:** units that cover different areas within your chosen course. They are a combination of core subjects (these are compulsory) and electives.

**Subject outline:** an official document that represents the statement of subject requirements that is authoritative for both the university and the students undertaking the subject. It includes details of the minimum essential requirements necessary to pass the subject, material and equipment that may be taken into an examination and may prescribe attendance and/or participation requirements. All students should receive a subject outline for every subject in the first week of class.

**Transnational:** Delivery of Australian (or UTS) courses and qualifications overseas, allowing students to study Australian qualifications in their home country or region. Also known as offshore courses.

**Tutorials:** small classes of students that provide a more personal, interactive teaching space for students and tutors to discuss and debate topics related to the subject. Students can also ask any questions they may have about the course material.
Contact UTS

UTS International offers advice and support to international students during the application process and throughout their studies at UTS. Contact us at:

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UTS INSEARCH CRICOS 00859D

The University of Technology Sydney (UTS) has used its best efforts to ensure that the information contained in this guide was correct and current as at June 2018. The information is provided in good faith as a guide and resource for new students. UTS accepts no responsibility for any error or omission. Any information contained in this guide is subject to change from time to time. You are advised to check the accuracy and currency of the information with the relevant faculty or unit within UTS, or with the relevant external organisation, before acting upon the information.

Thank you to all our international students who feature in this course guide.

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