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 www.sustainability.uts.edu.au

Within 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.
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STUDY IN THE HEART OF SYDNEY

Sydney is an exciting harbour city known world-over for its beautiful beaches, national parks, cultural diversity and relaxed suburbs.

The mild climate and relaxed attitude make Sydney an ideal place to enjoy the outdoors and celebrate cultural diversity. Year-round food, arts, sports, entertainment and music festivals mean there’s always something exciting to do in this stunning city.
TOP 10 THINGS TO DO AROUND SYDNEY

1. Catch the ferry to Manly for priceless views of Sydney Harbour.
2. Visit the iconic Sydney Opera House to snap a photo, and watch a performance if you can.
3. Walk the coastal track from Bondi Beach to Coogee and cool off with a swim (in between the flags, of course!).
4. Take in the view from Taronga Park Zoo as you visit some of Australia’s unique native animals.
5. Walk across the Sydney Harbour Bridge and take in the breath-taking views of the city and harbour.
6. Catch a flick at an open air cinema, such as the one at Mrs Macquarie’s Chair, which offers the Harbour Bridge as a backdrop.
7. Explore Sydney’s unique heritage in The Rocks and at Barangaroo Reserve, with its harbour lookouts and striking foreshore.
8. Enjoy the restaurants and incredible fireworks displays at the Darling Harbour entertainment precinct.
9. Watch a game of cricket, tennis, rugby league, AFL or soccer at one of the city’s exciting sports grounds – get in the mood by wearing some team colours.
10. Venture to the Blue Mountains for bushwalking and spectacular scenery.

“Sydney’s really amazing – every day you discover something new. When I got here, I really felt like this was where I was supposed to be. There’s always something to do and places to visit.”

SAJNA VINOD, INDIA
Master of Human Resource Management

Sydney is a popular destination for world-class events and festivals, many of which are outdoors and free! From theatre under the stars, to major sporting events, art exhibitions and international music and cultural activities, Sydney offers entertainment to suit all tastes.

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<th>Season</th>
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Source: www.australia.com
UTS offers international, innovative and industry-relevant education in the centre of the global city of Sydney.

More than 60 per cent of Australia’s start-ups are located in Sydney. With the highest density of technology start-ups in Australia based in the suburb surrounding UTS, you’ll be part of a thriving entrepreneurial community.

Sydney is also Australia’s business and financial capital; 90 per cent of international banks have made their regional headquarters in Sydney. The city is also home to 60 per cent of all Asia-Pacific regional headquarters, which includes more than 200 multinational companies.

With UTS located in the heart of a changing and vibrant locale, along with a range of developments and partnerships in the southern CBD, you will benefit from learning in such a dynamic creative and cultural precinct in Sydney.

UTS programs outside Australia
UTS offers students the opportunity to study UTS courses in China and Hong Kong. The courses have the same structure, learning outcomes and award as the courses delivered at UTS in Sydney.

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

“Being a Sydneysider has been one of the best personal experiences in my life. The city is full of life, there are awesome sights, lots of outdoor activities and the food is incredible.”

Cristian Vallejo Carpio, Ecuador
Master of Engineering
UTS’s central location means you can easily access Sydney’s attractions, entertainment and essential services from our campus doorstep.

**CENTRAL PARK**
Directly across from the UTS Tower Building is open parkland and the Central Park complex, with places to shop and dine, as well as pop-up galleries, live music and installations. Nearby Kensington Street offers restaurants, bars, cafés and Spice Alley – an Asian-style outdoor street-food market.

**DARLING HARBOUR**
From Central Station, walk along The Goods Line, a shared pedestrian and cycle path, past UTS’s Dr Chau Chak Wing Building to Darling Harbour. You’ll find numerous restaurants and attractions, as well as spectacular fireworks displays during special events.

**CHINATOWN**
UTS is close to Chinatown, host to a number of Chinese, Vietnamese, Malaysian, Thai, Korean and Japanese restaurants. You’ll also find a variety of specialty supermarkets and Paddy’s Market – a large indoor market selling a wide variety of foods, fashion, gifts and small household supplies.
“UTS now ranks in the top 10 young universities in the world and within the top 200 universities globally - both outstanding achievements. These rankings are further evidence of UTS’s reputation for excellence in research and innovation in our teaching, providing a differentiated student experience aimed at the future.

We continue to innovate and improve the quality of the educational experience we offer our students, and the quality and impact of our research, increasing the benefits we deliver for society. We are well on our way towards our vision of becoming a world-leading university of technology.”

PROFESSOR ATTILA BRUNGS
VICE-CHANCELLOR
UNIVERSITY OF TECHNOLOGY SYDNEY (UTS)
FACTS AND FIGURES

- Exchange agreements with more than 267 universities in 43 countries and territories.
- Our students represent 120 different nationalities.
- 145 languages spoken.
- 180 undergraduate and 190 postgraduate courses.
- 40,645 students enrolled at UTS.
- 11,420 international students.
- 200,000 UTS alumni.
- 76% of Australian-resident graduates were in full-time or part-time employment three months after completing study. (2015 Australian Graduate Survey).
- 20,645 students enrolled at UTS.
- 11,420 international students.
- 200,000 UTS alumni.
- 76% of Australian-resident graduates were in full-time or part-time employment three months after completing study. (2015 Australian Graduate Survey).

About UTS
Choose UTS

PRACTICE-BASED LEARNING

UTS courses are renowned for their practice-based approach. You are equipped with as much hands-on experience as possible and exposed to cutting-edge technology, so you develop the knowledge and skills valued by employers.

At **UTS Business School** you’ll engage in a practical and integrative approach to business education. Connect with industry as you undertake internships and professional work placements, and apply the knowledge gained from your degree to real-world projects with industry partners.

**UTS: Communication** courses combine theory and practice to produce work-ready graduates that are creative, flexible and professional. Develop your portfolio, with assignments based on real-world case studies or undertake a faculty facilitated internship.

Learn from industry-leading professionals and internationally respected academics throughout your **UTS: Design, Architecture and Building** degree. Collaborate on projects with other students, including those from other disciplines, and access our state-of-the-art facilities.
As a **UTS: Health** student you will develop your practical skills in our expansive clinical laboratories, and through external clinical placements and sport and exercise industry internships. Underpinned by cutting-edge research and developed in consultation with industry, our degrees are designed to meet the future needs of the health industry.

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Join **UTS: Education**, a leading provider of practice-oriented learning in teacher education, language and literacy teaching. Gain on-the-job training through professional experience placements and graduate with the skills, knowledge and hands-on experience sought by employers worldwide.

As a **UTS: Engineering** student you can take advantage of our strong industry partnerships by undertaking an internship as part of your undergraduate degree. Acquire industry-relevant knowledge and skills through courses that have been developed in consultation with industry.
Choose UTS

HOW YOU’LL LEARN AT UTS

At UTS, you will engage in activities designed to help you develop the knowledge, skills and attributes to become a professional in your chosen area. You will gain these skills through our unique approach to learning: a seamless integration of the best of online and face-to-face collaborative on-campus learning.

UTS: Information Technology has strong links with industry, and our courses are recognised for being practice-based and industry-relevant. Taught by lecturers and industry professionals who are leaders in their fields, our courses help you to succeed in an industry that is subject to increasingly rapid technological change.

Acquire in-depth knowledge of the language and culture of a country with UTS: International Studies. Gain an international perspective and improve your sociocultural skills to increase your employability in the global marketplace.
Develop your global work-ready skills throughout your UTS: Law degree, which will prepare you to thrive in today’s rapidly changing legal profession. Learn from internationally recognised academics and enhance your leadership skills in our Brennan Justice and Leadership Program.

Engage in practice-based learning throughout your UTS: Science degree, giving you scientific knowledge and professional expertise. Learn from academics that are experts in their field and have a wealth of knowledge and experience in academia and industry.

Develop the unique combination of digital literacy, problem-solving skills and creativity, and prepare yourself for the jobs of the future with UTS: Transdisciplinary Innovation. Collaborate with students from varied backgrounds to integrate data, information, tools, techniques, perspectives, concepts and/or theories to generate innovative and novel approaches to complex applied problems.
Choose UTS

OUR CONNECTIONS

UTS partners with leading organisations that recognise the value of creativity and technology in driving business results. Our connections with industry and wide networks will help you develop valuable skills, knowledge and experience, and make contacts to boost your career opportunities.

ACCESS TO INDUSTRY

At UTS, you will connect with industry throughout your degree. Engage in industry projects, develop solutions to real-world problems and benefit from industry-run competitions. Our industry practitioners also conduct guest lectures, participate in mentoring programs and give advice at networking events. Our courses are also developed in consultation with industry to ensure you are learning the most up-to-date techniques and industry best practice. Some UTS courses also include professional internships or industry placements as part of your degree, giving you the opportunity to place your knowledge in a real-world context.

INDUSTRY EXPERTS

Many of our teachers are experts in their field, enriching your learning experience with access to the most current industry expertise and networks across government, community bodies and the professions. Apple Co-founder Steve Wozniak is one of UTS’s adjunct professors and works with staff and students in the Centre for Quantum Computation and Intelligent Systems in UTS’s Faculty of Engineering and IT.

RESEARCH

UTS is a research-intensive university with a rapidly growing reputation for its research quality and impact across a wide range of fields. UTS works with a range of industry partners on issues that impact society, business, government, the environment and community. UTS has established high-quality research links with partner universities in Asia, Europe and Latin America through our Key Technology Partnerships program. These partnerships offer opportunities for students to undertake dual or joint doctoral degrees and for academics to develop international research collaborations.
UTS PARTNERS WITH SYDNEY CRICKET GROUND (SCG)

UTS has partnered with the Sydney Cricket and Sports Ground Trust (SCGT), the first partnership of its kind in Australia. New purpose-built facilities are also due to open in 2018. Students studying Sport and Exercise Science and Management will have some classes at UTS facilities in the SCG precinct. Students will engage in learning in this vibrant sports environment and be in close proximity to the elite sports already based at the SCG precinct, including cricket, rugby league, rugby union, Australian rules and football.

UTS: HATCHERY

The Hatchery is a unique program that gives you the start-up skills and training needed to launch your entrepreneurial future. Students from all faculties engage in classes, workshops, meet-ups and networking functions throughout the 15-week program. Since The Hatchery launched in 2015, students have worked with organisations such as Microsoft, Commonwealth Bank of Australia (CBA) and Australian Broadcasting Corporation (ABC) as well as Fishburners, Australia’s largest co-working space.

UTS: Hatchery+ supports early stage ventures founded or co-founded by UTS students and recent graduates. This is done by providing start-up teams with a collaborative and supported co-working space and a 3 month accelerator program that includes mentorship with leading experts from the start-up ecosystem, alongside relevant workshops and master classes.

GAIN A GLOBAL OUTLOOK

At UTS, you’ll broaden your way of thinking with international perspectives integrated into every facet of university life. UTS is building a strong network of strategic partnerships around the world that support our pathway programs, joint research programs and exchange opportunities.

UTS has one of the largest student mobility programs in Australia. As part of our Global Exchange program you have the opportunity to study in one of 267 universities around the world for one or two sessions. UTS BUILD also offers short-term overseas opportunities, to help you develop your leadership and intercultural capabilities. On campus, you can connect with students from Australia and around the world through our Community Connections program, Peer Network and student clubs.
Choose UTS

AUSTRALIA’S MOST INNOVATIVE CAMPUS

UTS delivers a vibrant and engaging education precinct. Our **world-class facilities** support our innovative and technology-based model of learning, offering a suite of spaces where you can learn and collaborate with industry, students and the UTS community.

**DR CHAU CHAK WING BUILDING**
Designed by world renowned architect Frank Gehry, the **UTS Dr Chau Chak Wing Building** embodies the UTS Business School’s commitment to fostering ideas and collaboration with industry and research.

The building features learning spaces that encourage collaboration and innovation. The oval classrooms facilitate interaction and dialogue, while collaborative theatres and classrooms encourage discussion and group work, and the student lounge is an inviting place to study.

Photo: Andrew Worssam

**ENGINEERING AND IT BUILDING**
The **Engineering and IT Building** contains civil, electrical, information and communication technology, and mechanical laboratories where you can gain hands-on experience. The UTS 3D Data Arena showcases the latest in immersive technology allowing researchers to discover new insights into big data. Classrooms and collaborative theatres facilitate multiple forms of engagement and the FEIT Learning Precinct gives you access to teachers for individual and small group support.

Photo: Andrew Worssam
The Vicki Sara Building, home of the Faculty of Science and Graduate School of Health, features a mix of collaborative learning spaces, as well as specialist and research labs. A multi-disciplinary Super Lab is equipped to teach over 200 students at any one time. The Crime Scene Simulation Lab replicates a real crime scene, and is used to simulate crimes to train forensic scientists.

Simulation rooms duplicate typical healthcare consulting rooms allowing Graduate School of Health students to practise their technical and communication skills. Psychology students gain practical experience in the UTS Psychology Clinic, which also offers affordable services to the public.

Relax on the grass or among an oasis of trees and plants, or enjoy a game of table tennis on the Alumni Green. There are plenty of places to sit, ideal for study or meeting friends.

A range of study spaces across the UTS campus support informal and formal learning experiences. Find a place to collaborate on a group project, for quiet individual study, or to socialise and relax. Many of these indoor and outdoor spaces are equipped with power and WIFI access.

The UTS Library offers a mix of spaces for group and individual study. The Library’s underground storage system uses robotic cranes to retrieve books less in demand, making borrowing faster and simpler.

UTS is the first university in Australia to be gifted with a library from the Chinese Government. The China Library is filled with books, audio visual materials, multimedia displays as well as reading and study areas.

Photos: Anna Zhu
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 rooms.

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, residencies and Central Station. A Security Shuttle Bus is available to Housing residents seven nights a week from 6.30pm to 1.30am.
Get involved in activities outside the classroom and make the most of university life! Join a club and take part in free events and activities to meet new people and experience new things.

You can also take advantage of our range of support services, many of which are free. Make an appointment with a doctor, get assistance writing and speaking English and help with assignments. We’re here to help, from your very first day at university.

**ORIENTATION**  [www.orientation.uts.edu.au](http://www.orientation.uts.edu.au)

The UTS Orientation program welcomes you to university life, through seminars, workshops and social events to help you get the most out of your student experience. Discover the services available, tips on living in Sydney and meet new people.

“The most important advice I have for international students is to attend Orientation Week. When you’re from overseas, you don’t have your family or friends on the weekend so it’s important to make friends. I met most of my friends at orientation week; it helped to calm my nerves in those first weeks.”

*Florine Bernhardt, France  Master of Orthoptics*

**PEER NETWORK**  [www.uts.edu.au/current-students/opportunities/peer-network-program](http://www.uts.edu.au/current-students/opportunities/peer-network-program)

Peer Networkers are student volunteers who offer help when you first arrive on campus, and can answer your questions about settling into Sydney and student life at UTS. They also encourage new students to connect with others from Australia and around the world through the weekly Network Café.

“I’ve been part of the UTS Peer Networkers; it’s been good to give back to UTS. Thinking back to my first day at uni, the first person that approached me was a UTS Peer Networker, so to have come full circle feels good. I definitely encourage any new students to get involved.”

*Senuri De Silva, Seychelles  Bachelor of Business*

**UTS INTERNATIONAL**  [www.international.uts.edu.au](http://www.international.uts.edu.au)

The UTS International Student Centre provides you with friendly advice, assistance and guidance as well as information about courses and administrative issues.

“When it comes to finding help you can go to UTS International, speak to them and they will guide you in the right direction. The emails from UTS also keep you informed about everything that’s happening on campus.”

*Linn Molberg, Sweden  Bachelor of Business*

**MULTI-FAITH CHAPLAINCY**  [www.uts.edu.au/current-students/support](http://www.uts.edu.au/current-students/support)

UTS is a diverse community, welcoming many different cultures and faiths. The UTS Multi-faith Chaplaincy represents Baha’i, Buddhist, Christian, Jewish and Islamic faiths. Our chaplains are available to assist you with a variety of challenges and problems, including homesickness, loneliness and spirituality.

“The Multi-Faith Chaplaincy is a good opportunity for people of different religions to find a quiet place to pray and they are well-equipped with a change room and wash room. The staff are very friendly and helpful, and it’s easy to access the rooms, especially when you book ahead.”

*George Zhang, China  Master of Marketing*
HELPS provides free English language and academic literacy support to UTS students. HELPS offers weekly writing, presentation, study and reading skills workshops, as well as drop-in consultations to help you with assignment writing and preparation. Practise speaking English with student volunteers through the daily Conversations@UTS sessions and the HELPSMates Buddy program.

“UTS: HELPS reinforced my English skills during my Master’s program. I attended speaking sessions on a regular basis and engaged in the ‘HELPS 1-TO-1 PROGRAM’ program with enthusiasm, which really improved my English language skills. I strongly recommend joining the UTS: HELPS program as soon as you can, and the best part is that it’s free!”

Diego Medrano, Ecuador
Master of Engineering


U:PASS is a student learning program, where trained senior students who have performed well in a subject provide support for early year students. In a session, you may review lecture notes, participate in problem solving activities, prepare for exams or share study tips.

“I attend many U:PASS sessions. I really enjoy it because it provides me with a very safe environment to study in. We learn from our peers and senior students who understand the experience we are going through. It’s a great idea to have U:PASS.”

Simin Peng, China
Bachelor of Nursing

MEDICAL SERVICE www.uts.edu.au/current-students/support

The UTS Health Service provides confidential medical care, with both male and female doctors available most days. The Traditional Chinese Medicine clinic within the Faculty of Science also offers acupuncture, herbal medicine and remedial massage.

“I’ve used the UTS Medical Centre several times. It’s really good; you can get in very quickly. When I first arrived, I was thinking, “Where can I go?” And then I found out that there is a medical service here, so I can come in any day.”

Karina Moroles Gorriti, Peru
Master of Engineering Management

COUNSELLING SERVICE www.uts.edu.au/current-students/support

Our confidential and free counselling service can help with a wide range of personal, relationship, psychological, study and administrative difficulties. Learn how to cope with the pressures of study, work and life through group counselling sessions and workshops. Face-to-face counselling sessions are also available in Mandarin and Cantonese.

“A few years ago I was going through a really difficult time. I used the service quite a lot and it was great. I think this service is especially important for international students. There is a bit of culture shock when you move your whole life to a different country. A lot of students could benefit from speaking to someone here.”

Samantha Low, Malaysia
Bachelor of Business/Bachelor of Law

UTS PSYCHOLOGY CLINIC www.psychology-clinic.uts.edu.au

The UTS Psychology Clinic provides both a service to the community and a training facility for postgraduate Clinical Psychology students in the Graduate School of Health. The treatments are carried out by student Provisional Psychologists and are fully supervised by practicing and highly experienced Clinical Psychologists. The clinic offers affordable and quality treatment to UTS students, staff and the wider community.
Support Services

CONNECT. LIVE. LEARN

COMMUNITY CONNECTIONS  www.communityconnections.uts.edu.au
Meet international and Australian students and engage with UTS and the Sydney community through our Community Connections program. Take part in community and cultural events, welcome dinners, day trips and volunteering activities.

"The Community Connections program not only helped me meet other local and international students but it has helped me to engage with the Australian community. I remember attending Clean-up Australia Day where I met our local member of parliament."
Linus Faustin, Tanzania
Bachelor of Communication (Digital and Social Media)

SOCIAL CLUBS AND EVENTS  www.activateuts.com.au/social
There’s always something exciting happening on campus! With free weekly breakfasts, barbecues, live music, events and festivals, there are plenty of opportunities to meet people, socialise and develop exciting new skills and experiences. Join one of our 130 clubs covering a range of sporting, cultural, political and religious interests.

“I’ve been engaged with the UTS Kendo club. It was very interesting and fun. They teach you control and coordination. I’ve also been involved in the UTS motor sports club where they build a car and test-drive it in competitions against other universities.”
Saheel Habibullah, Bangladesh
Bachelor of Engineering

Join any of the 30 sporting and recreational clubs, or work out in the fully-equipped Fitness Centre on campus. Explore Sydney and its surrounds with the ActivateUTS Recreation program which organises sport events, day trips and weekend getaways.

“The fully-equipped Fitness Centre on campus was quite helpful. Students need to find balance between their classes and free time and enjoy their university life not only sitting in the class and studying. The Fitness Centre provides me a good opportunity to do exercises after class and helps me cure exhaustion.”
Jiakun Liu, China
Master of Information Technology

SAFE, FAIR AND SUPPORTIVE  www.uts.edu.au/current-students/information-special-needs-students
UTS values its diversity and is committed to providing opportunities for all students to participate in the full range of university activities. If you have a disability or an ongoing health condition which may affect your study, the UTS Special Needs Service can provide you with information about the support available. Confidential advice and support can also be provided by various university groups if you encounter any problems on the grounds of harassment.

“The best thing about UTS is the people I have met here. My lecturers, classmates, friends and staff are all very friendly and welcoming. Despite coming from diverse backgrounds, we were able to work well together and enjoy each other’s company and friendship.”
Ruperto Jr Banatao Maribbay, Philippines
Graduate Diploma in Management
In 2016, Maia spent two and a half weeks in Saurath, a small rural village in the state of Bihar, India as part of the Drishtee Samaahit Immersion Program organised by the UTS BUiLD program.

“Innovation is one of our time’s biggest buzzwords. Almost every business claims to be ‘innovative’, but in real life many are doing exactly the same thing as others in their field. I have learned that innovation is those ideas that seem weird, impossible or different at the start, but turn out to be a great solution in the end.

[During the Drishtee Samaahit Immersion Program], we spent about five days in innovation workshops aiming to generate sustainable business concepts based on the actual needs we saw in the village. These concepts were prototyped and later piloted to key target groups in the village.

We put our entrepreneurial skills into action during the program. It takes a lot of resilience, focus and self-reliance to execute your idea, especially if it seems a little odd at first glance. I learned that innovation is those ideas that seem weird, impossible or different at the start, but turn out to be a great solution in the end.

I can definitely differentiate my way of thinking before and after the program. I’ve shaken off many of the little ‘mental prisons’ that were previously limiting me without my knowing. For example, I was wary of taking risks before but now I do take risks and speak my words freely since I know I can only learn by trial and error.”

Maia Sternberg, Sweden
Bachelor of Business
BUiLD Program: Drishtee Samaahit Immersion Program, India 2016
YOUR PATHWAY TO GRADUATE SUCCESS

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.

SUHAIB AL-AWAIDEH, JORDAN
Master of Engineering Management

"The Careers Service offers valuable programs that have helped me market myself, do interviews and write resumes. UTS will equip you for the future; they’ll show you how to communicate to the Australian marketplace and find suitable opportunities."

MONICA GEORGE, INDIA
Masters of Engineering Management
Masters of Business Administration

"Through UTS Careers I participated in Univative, a competition with students from other Sydney universities. Each group partners with a big company and they present us with a business plan or a problem to solve and we give them our fresh ideas. It’s a win-win situation because they are getting new ideas from university students and we gain valuable work experience and make professional contacts. My group was asked to devise a marketing plan and a strategy to help people download a new app, so we developed a promotional campaign using the budget and timeline provided. The company said they were very happy and would implement our ideas! Univative broadened my horizons and my networks by immersing me in a real-world challenge."
HOW THE UTS CAREERS SERVICE CAN HELP YOU:
GETTING TO KNOW US IN YOUR FIRST YEAR

**ATTEND ORIENTATION FOR NEW STUDENTS**
Orientation, which is compulsory for all new students, 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 UTS Careers and what the service can do for you to 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, International Student Job Board, and Weibo. We also have a range of workshops, drop-in sessions and resources available to help you in your job search.

**BUILD YOUR PERSONAL NETWORK**
Build your personal and professional network by getting involved on campus. Meet and mingle with 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 have 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 and fear. Plus, we have a range of online resources including InterviewStream.

ENTER THE WORKPLACE WITH CONFIDENCE:
ADVANCED KNOWLEDGE AND ONGOING SUPPORT FROM THE CAREERS SERVICE IN YOUR FINAL YEARS

**GAIN WORKPLACE CONFIDENCE WITH ACCOMPLISH**
The Accomplish Award program aims to increase your employability skills and prepare you for the Australian workplace. A series of workshops develops your communication, networking skills and you 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 Career Fair is open to all students as well as 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 the text books. UTS Careers has dedicated Alumni Career Services to help recent graduates starting out on their career path and helping them navigate the recruitment process. Keep in touch via UTS Alumni Office website, join the UTS Alumni Linkedin group or follow @UTSalumni on Instagram.
SCHOLARSHIPS

UTS offers scholarships for international students, available university-wide or for study in particular faculties.

AUSTRALIAN GOVERNMENT SCHOLARSHIPS

AUSTRALIA AWARDS SCHOLARSHIPS

A number of countries offer scholarships or sponsorship opportunities to their citizens who wish to study in Australia.

If you are from one of the following countries you may be eligible for a scholarship to support your studies at UTS:

- Brazil – Science Without Borders (SWB) program
- Colombia – COLFUTURO scholarship program
- China – China Scholarship Council and Dr Chau Chak Wing Scholarships
- Ecuador – Secretaría de Educación Superior, Ciencia, Tecnología e Innovación SENESCYT Program
- Indonesia – Direktorat Jenderal Pendidikan Tinggi (DIKTI) and Lembaga Pengelola Dana Pendidikan (LPDP)
- Mexico – Fondo para el Desarrollo de Recursos Humanos (FIDERH)
- Peru – Programa Nacional de Becas y Crédito Educativo (PRONABEC)
- Vietnam – Vietnam International Education Development (VIED)

Check with your home government to see if you are eligible for a scholarship.

FINANCIAL AID AND LOANS

A number of countries offer financial aid to their citizens who are studying in Australia. If you are from Canada, Denmark, Germany, Norway, Sweden or the United States of America you may be eligible for financial aid to support your studies at UTS.

Check with your home government to see if you are eligible for financial aid.

HOME COUNTRY SPONSORED SCHOLARSHIPS

A number of UTS faculties offer scholarships for students:

- Engineering
  > Engineering International Undergraduate Excellence Scholarship
  > Engineering (Management) Masters Scholarship for Outstanding International Students
  > Engineering (Technical) Masters Scholarship for Outstanding International Students
- Information Technology
  > Information Technology International Undergraduate Excellence Scholarship
  > Information Technology Masters Scholarship for Outstanding International Students
- Business
  > MBA Scholarship for Outstanding International Students (Commencing)
- Science
  > UTS Science Diploma to Degree Scholarship (INSEARCH)
  > UTS Science International Diploma to Degree Scholarship for Excellence (Polytechnics in Singapore)
  > UTS Science International Scholarship for Australian Year 12 students
  > UTS Science International Scholarship for Excellence (Postgraduate)
  > UTS Science International Scholarship for Excellence (Undergraduate)

FACULTY SPECIFIC SCHOLARSHIPS

A number of UTS faculties offer scholarships for students:

- Engineering
  > Engineering International Undergraduate Excellence Scholarship
  > Engineering (Management) Masters Scholarship for Outstanding International Students
  > Engineering (Technical) Masters Scholarship for Outstanding International Students
- Information Technology
  > Information Technology International Undergraduate Excellence Scholarship
  > Information Technology Masters Scholarship for Outstanding International Students
- Business
  > MBA Scholarship for Outstanding International Students (Commencing)
- Science
  > UTS Science Diploma to Degree Scholarship (INSEARCH)
  > UTS Science International Diploma to Degree Scholarship for Excellence (Polytechnics in Singapore)
  > UTS Science International Scholarship for Australian Year 12 students
  > UTS Science International Scholarship for Excellence (Postgraduate)
  > UTS Science International Scholarship for Excellence (Undergraduate)

NIKKI BRAMWELL, JAMAICA

PhD Faculty of Science (Marine Biology)

Nikki is the recipient of an Australia Award Scholarship

“...The Australia Award Scholarship was better than I expected. I was concerned about being so far from home – I didn’t think I’d be able to visit home throughout my PhD. But the scholarship provided return flights once a year for people who are here on their own, that’s really good. It covered my cost of living so I didn’t have to work, which allowed me to really focus on my thesis and not get distracted by stress. The UTS Sponsored Students team were also very warm and welcoming, they helped me with any issues I had.”
UTS has committed A$30 million towards a range of scholarship and grants for commencing and current undergraduate and postgraduate international students from 2016 – 2020.

**UNDERGRADUATE SCHOLARSHIPS AND GRANTS**

- **Academic Excellence Awards** – awarded to commencing international students enrolling in undergraduate coursework programs. 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 will be awarded to high-achieving UTS:INSEARCH graduates commencing at UTS.
- **Full Tuition Scholarships** – the first full degree scholarships to be offered at undergraduate level (for up to four years of study at UTS).

**POSTGRADUATE SCHOLARSHIPS AND GRANTS**

- **Academic Excellence Awards** – valued at A$5,000, awarded to commencing international students enrolling in postgraduate coursework programs.
- **Full Tuition Scholarships** – full tuition scholarships will be offered at the postgraduate level from 2018.

All scholarships and grants are competitive and will be awarded solely on the basis of academic achievement. All scholarships and grants are open to international students who meet the specific scholarship selection criteria and have received or are eligible to receive admission to a course at UTS.

For more information about scholarships for international students at UTS, visit [www.int-scholarships.uts.edu.au](http://www.int-scholarships.uts.edu.au)

**ALUMNI ADVANTAGE PROGRAM**

Thinking of further study? Eligible UTS alumni will receive a 10% saving on tuition fees for full fee paying courses when enrolling for award programs through the UTS Alumni Advantage program. The saving will apply automatically to graduates upon successful enrolment.
FEEL AT HOME

Secure a room at one of UTS Housing’s student residences or get information and assistance on a range of private accommodation options.

UTS-OWNED ACCOMMODATION
UTS students 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, one-bedroom or shared apartments
> Yura Mudang has 720 beds comprising studios and shared apartments conveniently located above UTS Building 6.
> Wattle Lane has 59 beds which are all studios located only minutes away from the main UTS building and dedicated to UTS Indigenous students.
All UTS residences have spacious communal and barbecue areas, study rooms, games and computer rooms. Yura Mudang also has a music room and Gumal Ngurang has a garden rooftop.
All UTS residences 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, cable 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.
There are two non-refundable fees: A$40 application fee and A$120 acceptance fee (subject to change). For more information, please visit the UTS Housing website: www.housing.uts.edu.au
Due to the high volume of accommodation requests, UTS Housing has also sourced reserved beds for students with off-campus providers (Urbanest, Unilodge and Iglu). For more information visit: www.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: www.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$19,830 a year to fund their living costs in Australia, and additional funds if bringing partners or family.

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.

Images: Anna Zhu and UTS Housing
UTS Housing accommodates 1207 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.

### SYDNEY LIVING COSTS – APPROXIMATE GUIDE ONLY

<table>
<thead>
<tr>
<th></th>
<th>INDEPENDENT ACCOMMODATION</th>
<th>UTS ACCOMMODATION</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Weekly</td>
<td>Annual</td>
</tr>
<tr>
<td>Rent per person in shared accommodation within a short commute to UTS</td>
<td>A$240* – A$350</td>
<td>A$12,480 – A$18,200</td>
</tr>
</tbody>
</table>

### LIVING COSTS

<table>
<thead>
<tr>
<th>Item</th>
<th>INDEPENDENT ACCOMMODATION</th>
<th>UTS ACCOMMODATION</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$12</td>
<td>A$520</td>
</tr>
<tr>
<td>Internet</td>
<td>A$8</td>
<td>A$520</td>
</tr>
<tr>
<td>Utilities – Gas/Electricity</td>
<td>A$20</td>
<td>A$1040</td>
</tr>
<tr>
<td>Books/Supplies/Printing</td>
<td>A$16</td>
<td>A$832</td>
</tr>
<tr>
<td>Transport costs</td>
<td>A$30^</td>
<td>A$1560^</td>
</tr>
<tr>
<td>TOTAL COSTS</td>
<td>A$426 – A$536</td>
<td>A$22,152 – A$27,872</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. ^ Transport costs will vary depending on how close you live to campus.

### ESTABLISHMENT COSTS

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

accounting • economics • events • digital creative enterprise • finance • human resource management • international business • management • sport business • marketing • tourism

> Study business where business happens. Benefit from the opportunities and atmosphere created from being in the heart of an innovative, creative precinct, home to organisations such as Google, Commonwealth Bank, PwC and Australia’s largest tech-startup district.

> Study in the iconic Dr Chau Chak Wing Building, designed by world-famous architect Frank Gehry, and enjoy 24-hour access to award winning learning facilities including group work rooms and individual study pods across our campus.

> Broden your specialisation. Combine your Business degree with Biotechnology, Engineering, Medical Science, Information Technology, Law, Creative Intelligence and Innovation or International Studies.

> Industry placements. Internship opportunities are available within the Bachelor of Business, Bachelor of Economics and Bachelor of Management.

> Choose practically relevant courses from a wide variety of specialisations. In our Bachelor of Business you can choose from 10 different majors and over 30 sub-majors while in our Bachelor of Management you can choose between majors in Sport Business, Digital Creative Enterprise, Tourism Management or Event Management.

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

> Benefit from an active UTS Business Student Society that provides networking, social, academic and career activities.

> UTS Business School is one of a select few business schools in the world accredited by AACSB International (Association to Advance Collegiate Schools of Business). This accreditation represents the highest standard of achievement for business schools worldwide.

> Excellence in Research. UTS Business School is placed equal 3rd in Australia for research in Economics and in Commerce and Management, in the Australian Government’s 2015 Excellence in Research Australia (ERA).

IN 2016 UTS BUSINESS SCHOOL HAD:

- **6350** undergraduate coursework students
- **1660** international undergraduate coursework students
- **117** students go overseas on global exchange

www.business.uts.edu.au/future

<table>
<thead>
<tr>
<th>Photos:</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>Jesse Taylor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>2</td>
<td></td>
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<tr>
<td>3</td>
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</tr>
</tbody>
</table>
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 (www.handbook.uts.edu.au).

**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.”

**YANGPEI (PATRICIA) LI, CHINA**

Bachelor of Business

“UTS gives you practical experience. In our accounting class we have lots of lab classes and work on real-life case studies. There’s a real company to analyse, and look at what problem the company is and how can we improve it. It’s better to learn the theory this way and how to apply that in real-life.
I was involved in the Interchange program, where I learnt how to think critically and innovatively to develop a business idea. In my group we developed an app called Guide Book to help international students meet each other. We wanted to build a network of international students to share information about where to seek help when they first arrive in Sydney. I worked with students from other faculties at UTS and other universities in Sydney. I have never done anything like that before so it was very challenging.”

**UTS Business School**

is ranked in the TOP 100 for Accounting and Finance, Business and Management Studies, and Economics. (QS World University Subject Rankings 2017)

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 (www.handbook.uts.edu.au).
COURSE DESCRIPTION
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, economics, finance, human resource management, international business, management, marketing, integrating business perspectives, business statistics, managing people.

MAJORS
Accounting, economics, finance, human resource management, international business, management, marketing, marketing communication. As a second major only: business law, information technology.

COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Integrating Business Perspectives</td>
<td>Accounting Standards and Regulations</td>
<td>Assurances Services and Audit</td>
</tr>
<tr>
<td>Accounting for Business Decisions A</td>
<td>Cost Management Systems</td>
<td>Taxation Law</td>
</tr>
<tr>
<td>Economics for Business</td>
<td>The Financial System</td>
<td>Corporate Financial Analysis (Capstone)</td>
</tr>
<tr>
<td>Business Statistics</td>
<td>Quantitative Business Analysis</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td>Accounting for Business Decisions B</td>
<td>Accounting for Business Combinations</td>
<td>Management Decisions and Control</td>
</tr>
<tr>
<td>Managing People and Organisations</td>
<td>Applied Company Law</td>
<td>Financial Statement Analysis (Capstone)</td>
</tr>
<tr>
<td>Marketing Foundations</td>
<td>Investment Analysis</td>
<td>Select 12 credit points of options</td>
</tr>
<tr>
<td>Fundamentals of Business Finance</td>
<td>Corporate Finance: Theory and Practice</td>
<td></td>
</tr>
</tbody>
</table>

List of majors

List of sub-majors
Accounting in Practice, Advanced Advertising, Advertising, Business Information Systems, Business Innovation and Financial

PROFESSIONAL RECOGNITION
The Accounting major meets the educational membership requirements for CPA Australia, Chartered Accountants of Australia and New Zealand, and the Chartered Institute of Management Accountants.

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 a CFA Institute University Program Partner based on the Bachelor of Business with a Finance major.

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

The Information Technology major meets the requirements for Associate grade membership of the Australian Computer Society.

CAREER OPPORTUNITIES
Career options include jobs in accounting, banking, economics, finance, human resource management, international business, management, marketing or marketing communication.
The Bachelor of Business structure

<table>
<thead>
<tr>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Autumn Session</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounting for Business Decisions A</td>
<td>Major Subject 1</td>
<td>Major Subject 5</td>
</tr>
<tr>
<td>Business Statistics</td>
<td>Major Subject 2</td>
<td>Major Subject 6</td>
</tr>
<tr>
<td>Economics for Business</td>
<td>OPTION</td>
<td>OPTION</td>
</tr>
<tr>
<td>Integrating Business Perspectives</td>
<td>OPTION</td>
<td>OPTION</td>
</tr>
<tr>
<td><strong>Spring Session</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accounting for Business Decisions B</td>
<td>Major Subject 3</td>
<td>Major Subject 7</td>
</tr>
<tr>
<td>Fundamentals of Business Finance</td>
<td>Major Subject 4</td>
<td>Major Subject 8 (capstone)</td>
</tr>
<tr>
<td>Managing People and Organisations</td>
<td>OPTION</td>
<td>OPTION</td>
</tr>
<tr>
<td>Marketing Foundations</td>
<td>OPTION</td>
<td>OPTION</td>
</tr>
</tbody>
</table>

5 options to finish your degree

<table>
<thead>
<tr>
<th>OPTION 1</th>
<th>OPTION 2</th>
<th>OPTION 3</th>
<th>OPTION 4</th>
<th>OPTION 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>2nd Major (8 subjects)</td>
<td>1 major 2 Sub-majors (4 subjects each)</td>
<td>1 major 1 Sub-major (4 subjects) and 4 Elective subjects</td>
<td>Extended Major (4 additional subjects) and 1 Sub-major (4 subjects)</td>
<td>Extended Major (4 additional subjects) and 4 Elective subjects</td>
</tr>
</tbody>
</table>

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, 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, designing economic policies in industry, government, consulting and financial institutions.

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 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 course provides students with extensive industry exposure to professional practice through practice-oriented assignments, education and built-in internships.

UTS has established partnerships with overseas universities that allow students the option to go on exchange in their fourth session as well as participate in international projects and field trips.

### AREAS OF STUDY

Management, tourism, events, sport, 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, sport, 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 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
- Business Strategy and Scenario Planning
- Professional Internship
- Managing Human Resources
- Innovation Lab
- Law and Ethics for Managers

**Year 3**
- Servicescape Design
- 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
- Business Strategy and Scenario Planning
- Professional Internship
- Managing Human Resources
- Innovation Lab
- 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
- Business Strategy and Scenario Planning
- 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
**COURSE STRUCTURE**

**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
- Business Strategy and Scenario Planning
- 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
- Business Strategy and Scenario Planning
- 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, management 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 management and marketing management in government agencies (local, state, national and international levels), private sector management and 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>
</tr>
</thead>
<tbody>
<tr>
<td>C09004</td>
<td>Bachelor of Business (Honours)</td>
<td>2</td>
<td>A$17,720</td>
<td>March</td>
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<td>2</td>
<td>A$16,565</td>
<td>March</td>
<td>City</td>
<td>085890B</td>
</tr>
</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.
<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>
</tr>
</thead>
<tbody>
<tr>
<td>C10169</td>
<td>Bachelor of Biotechnology Bachelor of Business</td>
<td>8</td>
<td>A$17,930</td>
<td>March, July</td>
<td>City</td>
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<tr>
<td>C10020</td>
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<td>10</td>
<td>A$17,270</td>
<td>March</td>
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<td>026187C</td>
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<tr>
<td></td>
<td>International Studies</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C10326</td>
<td>Bachelor of Business Bachelor of Creative</td>
<td>8</td>
<td>A$17,270</td>
<td>March</td>
<td>City</td>
<td>079756C</td>
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<tr>
<td></td>
<td>Intelligence and Innovation 🕐</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>C10125</td>
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<td>C10219</td>
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<td></td>
<td>Information Technology</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>C10386</td>
<td>Bachelor of Economics Bachelor of Laws</td>
<td>10</td>
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<td>March, July</td>
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<td></td>
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<td></td>
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<tr>
<td>C10343</td>
<td>Bachelor of Management Bachelor of Arts in</td>
<td>10</td>
<td>A$16,565</td>
<td>March</td>
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<td></td>
<td>International Studies</td>
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</tr>
<tr>
<td></td>
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<tr>
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<td>Bachelor of Medical Science Bachelor of Business</td>
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<td>A$17,930</td>
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<tr>
<td>C10162</td>
<td>Bachelor of Science Bachelor of Business</td>
<td>8</td>
<td>A$17,930</td>
<td>March, July</td>
<td>City</td>
<td>032310K</td>
</tr>
</tbody>
</table>

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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.
Join a top ranked program. In the 2017 QS World University Subject Rankings, UTS:Communication is ranked in the Top 100.

Be part of a technology-led School of Communication that produces sought after graduates. Our graduates work in media organisations, publishing houses, production companies, community groups, businesses and consultancies around the world.

Learn from industry leaders. Our academics are recognised and respected practitioners often working in the field and their expertise and connection with professional networks provide up-to-date knowledge and access to guest lecturers.

Engage in practical experience. Our courses incorporate Capstone Projects that encourage you to put learning into practice and engage with the issues, clients and challenges of your professional area.

Gain a practice-oriented and career-relevant education. Student work is regularly published in UTS video, radio, online and print publications such as the annual UTS Writers’ Anthology, CN (Central News) and 2SER radio, as well as in mainstream and specialist media outlets.

UTS: COMMUNICATION

creative writing • digital and social media • journalism • media arts and production • public communication • social and political sciences • music and sound design

IN 2016 UTS: ARTS AND SOCIAL SCIENCES HAD:

3810 undergraduate coursework students

260 international undergraduate coursework students

55 students go overseas on global exchange

www.communication.uts.edu.au/future

Photos: 1 2 3 4 5 K Photography
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. I undertook a journalism internship as part of my course at a niche publication and it was a great way to put the skills I’d learnt to practical use. It reaffirmed my love of writing, and was probably one of the best things I’ve done through my course at UTS.

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 glove. 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.”

ALEX MUNT
Senior Lecturer, Media Arts and Production

“The subjects in the UTS Media Arts and Production (MAP) major are highly oriented to practice-based learning. We have a strong reputation in film and screen media and an evolving curriculum in interactive, locative and multiplatform media arts.

Our students rely on our UTS production studios, facilities and extensive range of lighting, digital camera and audio equipment for their creative media projects, supported by academic teaching staff who are both experienced industry practitioners and have strong profiles in research and theory. In addition, students are supported by our Media Lab for their creative media project work.

Our students work collaboratively in ongoing productions in a lively and creative environment.”

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 (www.handbook.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, poetics, 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 8 credit points from the following:
  - Stream choices
  - Digital Literacies
  - Imagining the Real
- Select 8 credit points from the following:
  - Stream choices

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

### Year 3
- Writing Laboratory
- Select 8 credit points from the following:
  - Cross-disciplinary electives
- Select 8 credit points from the following:
  - Second major
  - Electives

* Entry requirements for the second major need to be met.

## 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.

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# 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.

* Entry requirements for the second major need to be met.
COURSE STRUCTURE

Year 1
Citizenship and Communication
Digital Communities
Select 8 credit points from the following:
Stream choices
Digital Literacies
Engagement, Participation, Gamification
Select 8 credit points from the following:
Stream choices

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

Year 3
Digital Publishing for Apps
Select 8 credit points from the following:
Cross-disciplinary electives
Select 8 credit points from the following:
Second major
Electives
Digital Futures
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 digital and social media coordinator, communications officer, digital channels strategist and social media manager.

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 digital 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
Select 8 credit points from the following:
Stream choices
Digital Literacies
Live Action: Multiplatform Journalism
Select 8 credit points from the following:
Stream choices

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

Year 3
The Hive: Collaborative Journalism
Industry Portfolio
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 reporter, producer, publisher, editor, sub-editor, feature and freelance journalist, investigative journalist, media researcher, and print, broadcast and online media strategist.

* Entry requirements for the second major need to be met.

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.

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**BACHELOR OF COMMUNICATION (MEDIA ARTS AND PRODUCTION)**

<table>
<thead>
<tr>
<th>COURSE DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AREAS OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exploring media arts, documentary, drama, aesthetics, media arts specialist modules, media arts project.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MAJORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media arts and production.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COURSE STRUCTURE</th>
</tr>
</thead>
</table>
| **Year 1**  
Citizenship and Communication  
Exploring Media Arts  
Select 8 credit points from the following:  
Stream choices  
Digital Literacies  
Composing the Real  
Select 8 credit points from the following:  
Stream choices  |
| **Year 2**  
Communicating Difference  
Fictions  
Select 8 credit points from the following:  
Second major*  
Electives  
Aesthetics  
Select 8 credit points from the following:  
Cross-disciplinary electives  
Select 8 credit points from the following:  
Second major  
Electives  |
| **Year 3**  
Media Arts Specialist Modules  
Select 8 credit points from the following:  
Cross-disciplinary electives  
Select 8 credit points from the following:  
Second major  
Electives  
Media Arts Project  
Select 8 credit points from the following:  
Cross-disciplinary electives  
Select 8 credit points from the following:  
Second major  
Electives |

<table>
<thead>
<tr>
<th>CAREER OPPORTUNITIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
</tr>
</tbody>
</table>

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**BACHELOR OF COMMUNICATION (PUBLIC COMMUNICATION)**

<table>
<thead>
<tr>
<th>COURSE DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>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 with specialised expertise in public relations and/or 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 – 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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AREAS OF STUDY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public communication, public relations, advertising, integrated communication.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MAJORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public communication.</td>
</tr>
</tbody>
</table>

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* Entry requirements for the second major need to be met.
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### 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
  - Select 8 credit points from the following:
    - Second major
    - 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

### 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.

### BACHELOR OF COMMUNICATION (SOCIAL AND POLITICAL SCIENCES)

**Course code:** C10364  
**CRICOS code:** 087736G  
**Course duration:** 3 years  
**Number of credit points:** 144  
**Intake:** March, July  
**Location:** City  
**Fees:** A $16,005 per session (see page 138 for further fees information)  
**Academic and additional requirements:** See page 132  
**English language requirements:** See page 133

**Course Description**

Social and political sciences come to life in the contemporary world through communication - inter-personal and 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.

* Entry requirements for the second major need to be met.

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.

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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.
## 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
  - Second major
  - Electives

* Entry requirements for the second major need to be met.

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### CAREER OPPORTUNITIES

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

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### BACHELOR OF MUSIC AND SOUND DESIGN

**Course code:** C10276
**CRICOS code:** 092409B
**Course duration:** 3 years
**Number of credit points:** 144
**Intake:** March
**Location:** City
**Fees:** A$18,280 per session (see page 138 for further fees information)

**Academic and additional requirements:**
See page 132
**English language requirements:**
See page 133

### 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

#### Year 1
- Citizenship and Communication
- Audio Cultures
- Select 8 credit points from the following:
  - Electives
- Digital Literacies
- Audio and Music Production
- Select 8 credit points from the following:
  - Electives

#### Year 2
- Communicating Difference
- Singing and Vocality
- Select 8 credit points from the following:
  - Electives
- Composing with Sound
- Select 8 credit points from the following:
  - Electives
- Songwriting and Composition for Context

#### Year 3
- Synthesis and Sound Design
- Screen Soundtrack Production
- Select 8 credit points from the following:
  - Electives
- Sound Project
- Music Business and Professional Practice
- Select 8 credit points from the following:
  - Electives

---

### 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>
<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>
<tr>
<td>C39047</td>
<td>Bachelor of Communication (Honours)</td>
<td>2</td>
<td>A$16,005</td>
<td>March</td>
<td>City</td>
<td>088589E</td>
</tr>
</tbody>
</table>

COMBINED DEGREES

All UTS: Communication courses can be combined with International Studies. All UTS: Communication courses, except the Bachelor of Sound and Music Design can be combined with Law. The duration of these combined courses is 5 years.

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 96 and 125 for more information.

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: DESIGN, ARCHITECTURE AND BUILDING

animation • architecture • construction project management • design • fashion and textiles • landscape architecture • photography • property economics • visual communication

> Join a top-ranked program. UTS is ranked 29th for Art and Design in the QS World University Subjects Rankings 2017.

> Gain an international perspective with our extensive network of international industry and academic partnerships. Our Global Studios program offers a unique learning experience in countries such as Japan, South Africa, Germany and USA.

> Be inspired by our academics and adjunct professors who collaborate with some of the world’s most prominent organisations such as Google and Westfield. They’re engaged in leading, cutting-edge projects from designing international airports and major cultural museums to working with councils on redefining our urban cities and green spaces.

> Connect with industry and address real-world global challenges through classroom projects. Our partnerships include key design, cultural, industry and government organisations such as Animal Logic, City of Sydney and Sydney Olympic Park.

> Access professional specialist facilities and equipment. Our facilities include 3D printers and scanners, laser cutters, three professional photography studios, motion capture laboratory, chromakey studio, screen printing workshop, plus a fully equipped fabrication workshop used to construct the most intricate prototypes through to designer furniture pieces.

> Collaborate with students across a variety of disciplines with our studio-based approach to learning. These experiences mimic real world team-based projects and propel our graduates to be job ready.

> Our emerging designers, architects and property professionals excel at winning prestigious industry awards and accolades. Recent wins include Cosentino Design Challenge, Target Australia’s National Graduate Fashion Showcase, Australian Design Biennale and World of Wearable Art.

> Our graduates make international headlines. From Matthew Dolan whose designs have been worn by Rhianna and Lady Gaga; to Katherine Mavridis, one of only five emerging designers to show her collection at New York Fashion Week.

IN 2016 UTS: DAB HAD:

3600 undergraduate coursework students

560 international undergraduate coursework students

50 students go overseas on global exchange

Photos 1 3 Bose Photography 2 Anna Zhu 4 Ohh Snap Photography
IDALARSSON, 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."

ALLENBAMERNI, 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."

Design and architecture employment grew by 32% in Australia, the fastest annual growth rate in 2015.
SEEK Insights and Resources
BAChelor of CoNstruction ProjeCt MaNaGeMent

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 even 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 sTiDY

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


COURSE STRUCTURE

Year 1
- Introduction to the Built Environment
- Built Environment Economics
- Construction Technology 1
- Built Environment Law and Ethics
- Digital Built Environment
- Materials Science
- Sustainable Urban Design and Development
- Construction Technology 2

Year 2
- Structures
- Construction Project Management Principles
- Site Establishment and Management
- Digital Design and Construction 1
- Cost Management 1: Measurement
- Construction Technology 3
- Time Management
- Integrated Services

Year 3
- Risk and Safety Management
- Cost Management 2: Estimating Design Team Management
- Select 6 credit points of electives
- Procurement and Contract Management
- Construction Technology 4
- Cost Management 3: Cost Planning
- Select 6 credit points of electives

Year 4
- Property Accounting and Financial Management
- Digital Design and Construction 2
- Cost Management 4: Advanced Cost Management
- Select 6 credit points of electives
- Human Resources and Communications Management
- Professional Practice
- Project Management Integration
- Select 6 credit points of electives

PROFESSIONAL RECOGNITION

Royal Institution of Chartered Surveyors (RICS); Australian Institute of Quantity Surveyors (AIQS); Australian Institute of Building (AIB); 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.

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 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>
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</thead>
<tbody>
<tr>
<td>Animation Studio: Foundations in Animation Language</td>
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<tr>
<td>Context: 2D Animation Introduction</td>
<td></td>
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<tr>
<td>Researching Design History</td>
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<tr>
<td>Animation Studio: Foundations in Animation Design</td>
<td></td>
<td></td>
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<tr>
<td>Context: 3D Animation Introduction</td>
<td></td>
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<tr>
<td>Design Thinking</td>
<td>Animation Studio: Narrative Investigations</td>
<td></td>
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<tr>
<td>Context: 3D Modelling and Rigging Introduction</td>
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<tr>
<td>Select 6 credit points of electives</td>
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<tr>
<td>3D Modelling and Rigging Advanced</td>
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<tr>
<td>Animation Studio: Narrative Experiments</td>
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<tr>
<td>Select 6 credit points of electives</td>
<td>Context: Design for 2D and 3D Digital Animation</td>
<td></td>
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<tr>
<td>Animation Studio: Animation Practice</td>
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<tr>
<td>Select 6 credit points of electives</td>
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<td></td>
</tr>
<tr>
<td>Context: Experimentations for 2D and 3D Digital Animation</td>
<td></td>
<td></td>
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<tr>
<td>Animation Studio: Animation Industry Project</td>
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<tr>
<td>Select 6 credit points of electives</td>
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</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 (CO423S). 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.

### COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural History and Theory: Orientations</td>
<td>Architectural History and Theory: Urbanism and the City</td>
<td>Lighting, Acoustics and Advanced Environmental Control</td>
</tr>
<tr>
<td>Architecture and Landscape Cultures</td>
<td>Architectural Design and Construction</td>
<td>Advanced Architectural Construction</td>
</tr>
<tr>
<td>Architectural Design: Architectural Communications</td>
<td>Select 6 credit points of electives</td>
<td>Select 6 credit points of electives</td>
</tr>
<tr>
<td>Architectural Design: Making</td>
<td>Architectural History and Theory: Critique</td>
<td>Architectural Design: Integration</td>
</tr>
<tr>
<td>Architectural History and Theory: Modernity and Modernism</td>
<td>Architectural Design: Performance</td>
<td>Architectural History and Theory: Current Events and Debates</td>
</tr>
<tr>
<td>Introduction to Construction and Structural Synthesis</td>
<td>Thermal Design and Environmental Control</td>
<td>Integrated Systems</td>
</tr>
<tr>
<td>Architectural Design: Architectural Communications 2</td>
<td>Select 6 credit points of electives</td>
<td>Select 6 credit points of electives</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 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.

#### COURSE STRUCTURE

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

#### CAREER OPPORTUNITIES
Career options include womenswear 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.
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 students’ 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.

COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
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</thead>
<tbody>
<tr>
<td>Inside Design</td>
<td>User-centred Design</td>
<td>Interdisciplinary Lab B</td>
</tr>
<tr>
<td>Understanding Three-dimensional Form</td>
<td>Research Methods in Product Design</td>
<td>Smart Design</td>
</tr>
<tr>
<td>Product Design Communication A</td>
<td>Select 6 credit points of electives</td>
<td>Select 12 credit points from the following:</td>
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<td>Researching Design History</td>
<td>Interdisciplinary Lab A</td>
<td>Sub-major/Options</td>
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<td>Design Thinking in Product Design</td>
<td>Select 12 credit points from the following:</td>
<td>Select 12 credit points from the following:</td>
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<td>Product Design Communication B</td>
<td>Sub-major/Options</td>
<td>Sub-major/Options</td>
</tr>
<tr>
<td>Informing Product Design</td>
<td>Select 6 credit points of electives</td>
<td>Select 6 credit points of electives</td>
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<tr>
<td>Design Thinking</td>
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</tbody>
</table>

CAREER OPPORTUNITIES
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.

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 transgress 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.

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 STRUCTURE

Year 1
Design Studio: Foundations in Interior Architecture
Context: Image and Making (Representation)
Design Thinking
Researching Design History
Design Studio: Inhabitants
Context: Image and Making (Generative Methods)

Year 2
Design Studio: Performative Spaces
Context: Inhabitants
Select 6 credit points of electives
Design Studio: Spatial Agency

Year 3
Context: Explorations
Select 6 credit points of electives
Design Studio: Industry
Context: Interdisciplinary
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.

COURSE STRUCTURE

Year 1
Photographic History and Theory
Design Studio: Photographic Intervention
Design Thinking
Critical Approaches to Photography
Researching Design History
Design Studio: The Photographic Studio

Year 2
Design Studio: The Digital Image
Photography Guest Lecture Program
Select 6 credit points of electives
Design Studio: The Object
Photographic Artifice
Select 6 credit points of electives

Year 3
Design Studio: Research as Practice
Professional Studies: Industry Placement
Select 6 credit points of electives
Graduation Exhibition
Professional Studies: Independent Practice
Select 6 credit points of electives

CAREER OPPORTUNITIES
There are many career options for graduates across a range of sectors, such as photography for fashion, journalism, architecture or marketing. Some graduates start their careers as photography assistants for professional photographers while others move into freelance work.

Generally, graduates can expect to work in a number of capacities, including photo agencies, advertising, and cultural production, as a freelancer working for various clients, a fine arts practitioner, or an editorial photographer for news outlets, magazines and digital media. Many graduates combine a number of these careers.
**BACHELOR OF LANDSCAPE ARCHITECTURE**

**COURSE DESCRIPTION**

The Bachelor of Landscape Architecture is a course designed to develop skills in design, construction and management associated with our 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 to 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 planning theory, technical analysis, and global study tours. A strong international focus is manifest in case studies, design and construction and management associated with our natural and built landscapes.

**AREAS OF STUDY**

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

**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
  - Design Thinking

- **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, brand 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 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
  - Design Thinking

- **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, brand 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.
COURSE STRUCTURE

Year 1
Landscape Architecture Studio 1: Forming
Landscape History and Theory 1
Architecture and Landscape Cultures
Architectural Design: Architectural Communications
Landscape Architecture Studio 2: Making
Landscape History and Theory 2
Landscape Tectonics
Architectural Design: Architectural 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 Urbanism
Landscape Architecture Technology
Select 6 credit points of electives

Year 4
Advanced Landscape Architecture Design Studio 1
Advanced Landscape Architecture Design Studio 2
Architectural Practice: Research Cultures
Select 6 credit points from the following:
Options (Landscape)
Architectural Practice: Advocacy
Select 6 credit points from the following:
Options (Landscape)

PROFESSIONAL RECOGNITION

The course has received preliminary accreditation by the Australian Institute of Landscape Architects. Full accreditation will be sought in 2017, six months before the graduation of the first student cohort.

CAREER OPPORTUNITIES

Career options include landscape architect, land management professional, regional planner, urban designer, educator and policymaker.

BACHELOR OF PROPERTY ECONOMICS

COURSE DESCRIPTION

For students who have thought about a career in business, economics or property, the Bachelor of Property Economics provides the edge 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 transferable, 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

Course code: C10310
CRICOS code: 079553C
Course duration: 3 years
Number of credit points: 144
Intake: March
Location: City
Fees: A$15,000 per session (see page 138 for further fees information)
Academic and additional requirements: See page 132
English language requirements: See page 133
The degree structures classes so that students do a mixture of individual and team-based work, mixing theory and practice. This means from industry, and students work with real-world projects such as Barangaroo, Central Park and Green Square. This job-readiness results from UTS's industry connections: the curriculum was developed in consultation with industry, guest lecturers come actively recruits property economics students. Most students are working in the industry by their third year of study. UTS graduates are highly sought after and have excellent starting salaries: the property industry just as relevant locally as it is internationally.

For students who have thought about a career in business, economics or property, the Bachelor

### COURSE DESCRIPTION

- **Career options** include landscape architect, land management professional, regional planner, urban designer, educator and policymaker.
- **Six months** before the graduation of the first student cohort.

### 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>
<th>CRICOS code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C09064</td>
<td>Bachelor of Design (Honours)</td>
<td>2</td>
<td>A$17,270</td>
<td>March, July</td>
<td>City</td>
<td>079560D</td>
</tr>
<tr>
<td>C09056</td>
<td>Bachelor of Design (Honours) in Animation</td>
<td>2</td>
<td>A$17,270</td>
<td>March</td>
<td>City</td>
<td>074705K</td>
</tr>
<tr>
<td>C09048</td>
<td>Bachelor of Design (Honours) in Architecture</td>
<td>2</td>
<td>A$17,570</td>
<td>March</td>
<td>City</td>
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<tr>
<td>C09060</td>
<td>Bachelor of Design (Honours) in Fashion and Textiles</td>
<td>2</td>
<td>A$17,270</td>
<td>March</td>
<td>City</td>
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<tr>
<td>C09059</td>
<td>Bachelor of Design (Honours) in Product Design</td>
<td>2</td>
<td>A$17,270</td>
<td>March</td>
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<td>C09055</td>
<td>Bachelor of Design (Honours) in Interior Architecture</td>
<td>2</td>
<td>A$17,270</td>
<td>March</td>
<td>City</td>
<td>071630D</td>
</tr>
<tr>
<td>C09052</td>
<td>Bachelor of Design (Honours) in Photography</td>
<td>2</td>
<td>A$17,270</td>
<td>March</td>
<td>City</td>
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<tr>
<td>C09061</td>
<td>Bachelor of Design (Honours) in Visual Communication</td>
<td>2</td>
<td>A$17,270</td>
<td>March</td>
<td>City</td>
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<tr>
<td>C09063</td>
<td>Bachelor of Property Economics (Honours)</td>
<td>2</td>
<td>A$15,000</td>
<td>March</td>
<td>City</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>
</tr>
</thead>
<tbody>
<tr>
<td>C10215</td>
<td>Bachelor of Construction Project Management Bachelor of Arts in International Studies</td>
<td>12</td>
<td>A$15,000</td>
<td>March</td>
<td>City</td>
<td>047836A</td>
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<tr>
<td>C10274</td>
<td>Bachelor of Design in Animation Bachelor of Arts in International Studies</td>
<td>10</td>
<td>A$17,270</td>
<td>March</td>
<td>City</td>
<td>074704M</td>
</tr>
<tr>
<td>C10356</td>
<td>Bachelor of Design in Animation Bachelor of Creative Intelligence and Innovation</td>
<td>8</td>
<td>A$17,270</td>
<td>March</td>
<td>City</td>
<td>088068G</td>
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<td>C10325</td>
<td>Bachelor of Design in Architecture Bachelor of Creative Intelligence and Innovation</td>
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<td>A$17,570</td>
<td>March</td>
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<td>10</td>
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<td>March</td>
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<tr>
<td>C10305</td>
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<td>10</td>
<td>A$17,270</td>
<td>March</td>
<td>City</td>
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<td>C10323</td>
<td>Bachelor of Design in Product Design Bachelor of Creative Intelligence and Innovation</td>
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<td>A$17,270</td>
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<td>City</td>
<td>079753F</td>
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<tr>
<td>C10272</td>
<td>Bachelor of Design in Interior Architecture Bachelor of Arts in International Studies</td>
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<td>A$17,270</td>
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<td>City</td>
<td>071646G</td>
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<td>C10322</td>
<td>Bachelor of Design in Interior Architecture Bachelor of Creative Intelligence and Innovation</td>
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<td>City</td>
<td>079752G</td>
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<td>C10266</td>
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<td>A$17,270</td>
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<td>C10309</td>
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<td>City</td>
<td>077341J</td>
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<tr>
<td>C10324</td>
<td>Bachelor of Design in Visual Communication Bachelor of Creative Intelligence and Innovation</td>
<td>8</td>
<td>A$17,270</td>
<td>March</td>
<td>City</td>
<td>079754E</td>
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<tr>
<td>C10320</td>
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<td>10</td>
<td>A$15,000</td>
<td>March</td>
<td>City</td>
<td>079556M</td>
</tr>
</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.
UTS: EDUCATION

primary education • secondary education • kindergarten - year 12 education

> Join a top-ranked program. In the 2017 QS World University Subject Rankings, UTS: Education is ranked in the top 150 in Education.

> Gain confidence as a primary, secondary or kindergarten to year 12 teacher in the Bachelor of Arts Bachelor of Education. Our practice-oriented course integrates the latest educational theory with an engaging professional experience program.

> Develop the skills, knowledge and hands on experience sought by employers worldwide. Our courses combine theory with extensive professional teaching experiences each year.

> Take up the opportunity to specialise in Mathematics or Science and Technology if you go into the primary major. These specialisations can strengthen your job prospects when you graduate.

> Be challenged and inspired through the option of an international professional experience trip. In recent years students have gone to China, Thailand, Indonesia, Samoa and South Korea.

IN 2016 UTS: ARTS AND SOCIAL SCIENCES HAD:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>undergraduate coursework students</td>
<td>3810</td>
</tr>
<tr>
<td>international undergraduate coursework students</td>
<td>260</td>
</tr>
<tr>
<td>students go overseas on global exchange</td>
<td>55</td>
</tr>
</tbody>
</table>

> Engage with the latest knowledge, with innovations in teaching and learning integrated into our course content. E-learning subjects are integrated into many of our courses in response to the demand for skilled, internet-savvy and imaginative professionals.

> Learn from dedicated experts, many of whom 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.

> Develop a strong blend of practice-oriented and career relevant skills, including the ability to think constructively – a skill that’s transferable to any job or discipline.

> Benefit from innovative and interdisciplinary research. Our coursework programs are informed by the latest developments, including research gained from UTS’s International Research Centre for Youth Futures.

Note: UTS School of Education students follow the UTS Academic Calendar B, due to work-based training components that need to be undertaken. Please see handbook.uts.edu.au/dates_academic.html for Calendar B Autumn and Spring session dates, including Orientation.

Note:
1. The countries that are selected change from year to year.
2. This opportunity is only available to students in the primary major.
All UTS courses periodically undergo review and changes may occur to ensure they meet industry standards, requirements and quality assurance. For the most up-to-date course information please visit the UTS Handbook (www.handbook.uts.edu.au).

PROFESSOR ROSEMARY JOHNSTON

Founding Director, International Centre for Youth Futures

“I like the fact UTS has a vibrant community of scholars, that we all have a role to play in this lovely enterprise of education, and that above all, UTS encourages and fosters creative and innovative thinking – and doing – in its staff and students.

My proudest moment is when students walk across the stage at graduation in cap and gown to collect their testamur. But I am also very proud of our teacher education courses, which have an extremely high reputation, and of the UTS-based International Centre for Youth Futures and the work it does to achieve educational equity, especially for disadvantaged communities.”

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.”
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.

<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>C10350</td>
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<td>February</td>
<td>City</td>
<td>087949E</td>
</tr>
<tr>
<td>C10349</td>
<td>Bachelor of Education Bachelor of Arts in International Studies</td>
<td>10</td>
<td>A$15,145</td>
<td>February</td>
<td>City</td>
<td>087950A</td>
</tr>
</tbody>
</table>
UTS: ENGINEERING

biomedical • civil • civil (construction) • civil (structures) • data • civil and environmental • electrical • electronic • mechanical • mechatronic • mechanical and mechatronic • software

> Earn an internationally recognised degree. Our Bachelor of Engineering (Honours) is accredited by Engineers Australia and therefore recognised by all 17 countries who are signatories of the Washington Accord.

> Join a top international program. In the 2017 QS World University Subject Rankings, UTS ranked in the top 150 for Civil and Structural Engineering, and Electric and Electronic Engineering.

> Gain practical experience by undertaking two six-month work placements with the Bachelor of Engineering (Honours), Diploma in Professional Engineering Practice.

> Develop solutions to real engineering problems in consultation with our industry partners through capstone subjects in each of our Engineering majors.

> Access state-of-the-art facilities and technologies. Our A$229 million environmentally sustainable building features a 3D data visualisation arena, software development studio, a remote lab, and many other specialist laboratories.

> Experience research-inspired learning with course content that is constantly updated and informed by UTS’s ground-breaking research, relevant to today’s world. Many of our academics are engaged in joint research programs with overseas universities and research institutes.

IN 2016 UTS: ENGINEERING & IT HAD:

<table>
<thead>
<tr>
<th>Category</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>6260 undergraduate coursework students</td>
<td></td>
</tr>
<tr>
<td>1330 international undergraduate coursework students</td>
<td></td>
</tr>
<tr>
<td>55 students go overseas on global exchange</td>
<td></td>
</tr>
</tbody>
</table>

Scholarship opportunities
The Engineering International Undergraduate Excellence Scholarships are valued at AU$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 www.uts.edu.au/scholarships

Photos: 1 2 4 5 Chris Shain 3 Andrew Worssam
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 (www.handbook.uts.edu.au).

MOHAMMED CHOWDHY, BANGLADESH  
Bachelor of Engineering

“The thing I loved the most about my engineering degree at UTS was the lab visits and experiments. We visited different industries then wrote reports, which we followed up with different plans and abstracts based on these visits. I really enjoyed the problem-solving skills of engineering. Whenever we did case studies or practical activities, we had to find solutions in the most efficient and ethical manner.

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.”

YIJIA XU, CHINA  
Bachelor of Engineering (Honours)

“UTS is very innovative and has an inspiring learning environment. I know UTS is very famous for Engineering, so that’s the reason I chose this university.

I’m currently studying the Engineering Communication subject, and it’s about the professional skills required for a career in Engineering. It teaches you how to communicate and cooperate with others, and how to create and engage in a fantastic work environment. It’s important because before this subject, I thought engineering was just about calculations and paperwork. I’m not very good at communicating with others so this subject gives me a good opportunity to practise these skills.”

The world’s 1st bridge inspection robot was designed and created at UTS.
**BACHELOR OF ENGINEERING (HONOURS)**

**COURSE DESCRIPTION**
This course is identical to the Bachelor of Engineering (Honours) Diploma in Professional Engineering Practice (C09067) except 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 (with construction specialisation), civil (with structures specialisation), civil and environmental, data, electrical, electronic, mechanical, mechanical and mechatronic, mechatronic, software, no specified major.

**COURSE STRUCTURE**

### Biomedical Engineering major, Autumn commencing

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Modelling 1</td>
<td>Design and Innovation Fundamentals</td>
<td>Engineering Project Management</td>
<td>Engineering Workplace Reflection</td>
</tr>
<tr>
<td>Engineering Communication</td>
<td>Cell Biology and Genetics</td>
<td>Fundamentals of Biomedical Engineering</td>
<td>Engineering Research Preparation</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>Database Principles</td>
<td>Medical Devices and Diagnostics</td>
<td>Select 6 credit points from the following:</td>
</tr>
<tr>
<td>Introduction to Electrical Engineering</td>
<td>Electronics and Circuits</td>
<td>Select 6 credit points from the following:</td>
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<tr>
<td>Mathematical Modelling 2</td>
<td>Engineering Practice Preparation 1</td>
<td>Medical Imaging</td>
<td>Bioinformatics</td>
</tr>
<tr>
<td>Physical Modelling</td>
<td>Engineering Economics and Finance</td>
<td>Neuroscience</td>
<td>Advanced Robotics</td>
</tr>
<tr>
<td>Select 6 credit points from the following:</td>
<td>Human Anatomy and Physiology</td>
<td>Mechatronics 2</td>
<td>Neural Networks and Fuzzy Logic</td>
</tr>
<tr>
<td>Programming Fundamentals</td>
<td>Signal Theory</td>
<td>Advanced Data Analytics</td>
<td>Biomedical Instrumentation</td>
</tr>
<tr>
<td>Engineering Computations</td>
<td>Physiological Systems</td>
<td>Introduction to Data Analytics</td>
<td>Biomedical Signal Processing</td>
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<tr>
<td>Select 6 credit points from the following:</td>
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<td>Engineering Biomedical Polymer</td>
<td></td>
</tr>
<tr>
<td>Introductory Digital Systems</td>
<td></td>
<td>Engineering Work Experience</td>
<td>Select 12 credit points of options</td>
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<tr>
<td>Mechatronics 1</td>
<td></td>
<td>Entrepreneurship and Commercialisation</td>
<td>Engineering Capstone</td>
</tr>
</tbody>
</table>

### Civil Engineering major, Autumn commencing

<table>
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<tr>
<th>Year 1</th>
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<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Modelling 1</td>
<td>Design and Innovation Fundamentals</td>
<td>Engineering Project Management</td>
<td>Engineering Workplace Reflection</td>
</tr>
<tr>
<td>Engineering Communication</td>
<td>Engineering Computations</td>
<td>Concrete Design</td>
<td>Engineering Research Preparation</td>
</tr>
<tr>
<td>Physical Modelling</td>
<td>Mechanics of Solids</td>
<td>Fluid Mechanics</td>
<td>Steel and Timber Design</td>
</tr>
<tr>
<td>Introduction to Civil and Environmental Engineering</td>
<td>Construction</td>
<td>Road and Transport Engineering</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td>Mathematical Modelling 2</td>
<td>Engineering Practice Preparation 1</td>
<td>Entrepreneurship and Commercialisation</td>
<td>Computer Modelling and Design</td>
</tr>
<tr>
<td>Surveying</td>
<td>Soil Behaviour</td>
<td>Geotechnical Engineering</td>
<td>Hydraulics and Hydrology</td>
</tr>
<tr>
<td>Chemistry and Materials Science</td>
<td>Structural Analysis</td>
<td>Select 6 credit points of options</td>
<td>Select 6 credit points of options</td>
</tr>
</tbody>
</table>

#### Course Code: C09066
CRICOS Code: 084098A
Course duration: 4 years
Number of credit points: 198
Intake: March, July
Location: City
Fees: A$20,175 per session (see page 138 for further fees information)
Academic and additional requirements: See page 132
English language requirements: See page 133
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.

<table>
<thead>
<tr>
<th>Civil (Construction specialisation) Engineering major, Autumn commencing</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Modelling 1</td>
<td>Design and Innovation Fundamentals</td>
<td>Engineering Project Management Concrete Design</td>
<td>Engineering Workplace Reflection Engineering Research Preparation</td>
<td></td>
</tr>
<tr>
<td>Engineering Communication</td>
<td>Engineering Computations Mechanics of Solids Construction</td>
<td>Fluid Mechanics Construction Technology 3 Geotechnical Engineering Construction Project Management Principles</td>
<td>Select 6 credit points from the following: Steel and Timber Design Construction Technology 4 Design Team Management Environmental Planning and Law Road and Transport Engineering</td>
<td></td>
</tr>
<tr>
<td>Physical Modelling</td>
<td>Engineering Practice Preparation 1 Engineering Economics and Finance Soil Behaviour Structural Analysis Construction Materials</td>
<td>Engineering Work Experience</td>
<td>Select 6 credit points of options</td>
<td></td>
</tr>
<tr>
<td>Introduction to Civil and Environmental Engineering</td>
<td></td>
<td></td>
<td>Steel and Timber Design Construction Technology 4 Design Team Management Environmental Planning and Law Road and Transport Engineering</td>
<td></td>
</tr>
<tr>
<td>Mathematical Modelling 2</td>
<td></td>
<td></td>
<td>Select 6 credit points of options</td>
<td></td>
</tr>
<tr>
<td>Engineering Mechanics Surveying</td>
<td></td>
<td></td>
<td>Hydraulics and Hydrology Engineering Capstone</td>
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</tr>
<tr>
<td>Chemistry and Materials Science</td>
<td></td>
<td></td>
<td>Select 6 credit points from the following: Steel and Timber Design Construction Technology 4 Design Team Management Environmental Planning and Law Road and Transport Engineering</td>
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<table>
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<tr>
<th>Civil (Structures specialisation) Engineering major, Autumn commencing</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Modelling 1</td>
<td>Design and Innovation Fundamentals</td>
<td>Engineering Project Management Concrete Design</td>
<td>Engineering Workplace Reflection Engineering Research Preparation</td>
<td></td>
</tr>
<tr>
<td>Engineering Communication</td>
<td>Engineering Computations Mechanics of Solids Construction</td>
<td>Fluid Mechanics Construction Technology 3 Geotechnical Engineering Construction Project Management Principles</td>
<td>Select 6 credit points from the following: Steel and Timber Design Construction Technology 4 Design Team Management Environmental Planning and Law Road and Transport Engineering</td>
<td></td>
</tr>
<tr>
<td>Physical Modelling</td>
<td>Engineering Practice Preparation 1 Engineering Economics and Finance Soil Behaviour Structural Analysis Construction Materials</td>
<td>Engineering Work Experience</td>
<td>Select 6 credit points of options</td>
<td></td>
</tr>
<tr>
<td>Introduction to Civil and Environmental Engineering</td>
<td></td>
<td></td>
<td>Steel and Timber Design Construction Technology 4 Design Team Management Environmental Planning and Law Road and Transport Engineering</td>
<td></td>
</tr>
<tr>
<td>Mathematical Modelling 2</td>
<td></td>
<td></td>
<td>Select 6 credit points of options</td>
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</tr>
<tr>
<td>Engineering Mechanics Surveying</td>
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<td>Hydraulics and Hydrology Engineering Capstone</td>
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<tr>
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<td></td>
<td>Select 6 credit points from the following: Steel and Timber Design Construction Technology 4 Design Team Management Environmental Planning and Law Road and Transport Engineering</td>
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</table>

<table>
<thead>
<tr>
<th>Civil and Environmental Engineering major, Autumn commencing</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Modelling 1</td>
<td>Design and Innovation Fundamentals</td>
<td>Engineering Project Management Structural Analysis</td>
<td>Engineering Workplace Reflection Engineering Research Preparation</td>
<td></td>
</tr>
<tr>
<td>Engineering Communication</td>
<td>Mechanics of Solids Water Supply and Wastewater Engineering</td>
<td>Pollution Control and Waste Management</td>
<td>Geotechnical Engineering Environmental Planning and Law</td>
<td></td>
</tr>
<tr>
<td>Physical Modelling</td>
<td>Engineering Computations</td>
<td>Hydraulics and Hydrology</td>
<td>Road and Transport Engineering</td>
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</tr>
<tr>
<td>Introduction to Civil and Environmental Engineering</td>
<td>Engineering Practice Preparation 1 Engineering Economics and Finance</td>
<td>Entrepreneurship and Commercialisation</td>
<td>Engineering Capstone</td>
<td></td>
</tr>
<tr>
<td>Mathematical Modelling 2</td>
<td>Construction Materials Fluid Mechanics Principles of Environmental Engineering</td>
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<td>Steel and Timber Design</td>
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</tr>
<tr>
<td>Engineering Mechanics</td>
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<td>Concrete Design</td>
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<tr>
<td>Chemistry 1</td>
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<td></td>
<td>Engineering Work Experience</td>
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</tr>
<tr>
<td>Surveying</td>
<td></td>
<td></td>
<td>Steel and Timber Design</td>
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</table>

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Electrical Engineering major, Autumn commencing

Year 1
Mathematical Modelling 1
Engineering Communication
Introduction to Electrical 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 Economics and Finance
Electromechanical Automation
Signals and Systems
Select 6 credit points of options

Year 3
Engineering Project Management
Select 12 credit points from the following:
Advanced Digital Systems
Introductory Control
Electrical Machines
Power Circuit Theory
Select 6 credit points of options

Year 4
Engineering Workplace Reflection
Engineering Research Preparation
Select 12 credit points from the following:
Advanced Control
Embedded Software
Power Electronics and Drives
Power Systems Analysis and Design
Select 6 credit points of options

Mechanical Engineering major, Autumn commencing

Year 1
Mathematical Modelling 1
Engineering Communication
Introduction to Mechanical and Mechatronic Engineering
Physical Modelling
Mathematical Modelling 2
Introduction to Electrical 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
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
Select 12 credit points of options

Mechanical and Mechatronic Engineering major, Autumn commencing

Year 1
Mathematical Modelling 1
Engineering Communication
Introduction to Mechanical and Mechatronic Engineering
Physical Modelling
Mathematical Modelling 2
Introduction to Electrical 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, Autumn commencing

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Modelling 1</td>
<td>Engineering Practice Preparation 1</td>
<td>Mechatronics 2</td>
<td>Engineering Workplace Reflection</td>
</tr>
<tr>
<td>Engineering Communication</td>
<td>Design and Innovation Fundamentals</td>
<td>Mechanical Design 2</td>
<td>Engineering Research Preparation</td>
</tr>
<tr>
<td>Introduction to Mechanical and Mechatronic Engineering</td>
<td>Electronics and Circuits</td>
<td>Dynamics and Control</td>
<td>Robotics</td>
</tr>
<tr>
<td>Physical Modelling</td>
<td>Mechanics of Solids</td>
<td>Engineering Economics and Finance</td>
<td>Select 12 credit points of options</td>
</tr>
<tr>
<td>Mathematical Modelling 2</td>
<td>Machine Dynamics</td>
<td>Engineering Project Management</td>
<td>Entrepreneurship and Commercialisation</td>
</tr>
<tr>
<td>Introduction to Electrical Engineering</td>
<td>Mechanical Design 1</td>
<td>Programming for Mechatronic Systems</td>
<td>Engineering Capstone</td>
</tr>
<tr>
<td>Fundamentals of Mechanical Engineering</td>
<td>Mechatronics 1</td>
<td>Sensors and Control for Mechatronic Systems</td>
<td>Select 12 credit points of options</td>
</tr>
<tr>
<td>Manufacturing Engineering</td>
<td>Strength of Engineering Materials</td>
<td>Electromechanical Automation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Thermodynamics</td>
<td>Engineering Work Experience</td>
<td></td>
</tr>
</tbody>
</table>

### Data Engineering major, Autumn commencing

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Modelling 1</td>
<td>Engineering Practice Preparation 1</td>
<td>Engineering Economics and Finance</td>
<td>Engineering Workplace Reflection</td>
</tr>
<tr>
<td>Engineering Communication</td>
<td>Physical Modelling</td>
<td>Data Engineering Design</td>
<td>Engineering Research Preparation</td>
</tr>
<tr>
<td>Introduction to Data Engineering</td>
<td>Sensing, Actuation and Control</td>
<td>Data Engineering Applications Studio B</td>
<td>Data Engineering Professional Studio B</td>
</tr>
<tr>
<td>Fundamentals of C Programming</td>
<td>Information and Signals</td>
<td>Select 6 credit points from the following:</td>
<td>Engineering Work Reflection</td>
</tr>
<tr>
<td>Network Fundamentals</td>
<td>Data Engineering Fundamentals Studio B</td>
<td>Technical subject choice [Data Engineering]</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td>Mathematical Modelling 2</td>
<td>Design and Innovation Fundamentals</td>
<td>Engineering Project Management</td>
<td>Engineering Work Experience</td>
</tr>
<tr>
<td>Introduction to Data Analytics</td>
<td>Data Systems</td>
<td>Interrogating Technology:</td>
<td>Select 6 credit points from the following:</td>
</tr>
<tr>
<td>Data Engineering Fundamentals</td>
<td>Data Engineering Applications Studio A</td>
<td>Sustainability, Environment and Social Change</td>
<td>Technical subject choice [Data Engineering]</td>
</tr>
<tr>
<td>Studio A</td>
<td>Select 6 credit points from the following:</td>
<td>Data Engineering Professional Studio A</td>
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</tr>
<tr>
<td></td>
<td>Technical subject choice [Data Engineering]</td>
<td>Engineering Work Experience</td>
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</tr>
</tbody>
</table>

### Software Engineering major, Autumn commencing

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Modelling 1</td>
<td>Engineering Practice Preparation 1</td>
<td>Engineering Economics and Finance</td>
<td>Engineering Research Preparation</td>
</tr>
<tr>
<td>Engineering Communication</td>
<td>Physical Modelling</td>
<td>Software Engineering Studio 2A</td>
<td>Entrepreneurship and Commercialisation</td>
</tr>
<tr>
<td>Applications Programming</td>
<td>Data Structures and Algorithms</td>
<td>Select 6 credit points of options</td>
<td>Engineering Workplace Reflection</td>
</tr>
<tr>
<td>Business Requirements</td>
<td>Select 6 credit points of options</td>
<td>Software Engineering Studio 1A</td>
<td>Software Engineering Studio 3A</td>
</tr>
<tr>
<td>Modelling</td>
<td>Design and Innovation Fundamentals</td>
<td>Select 6 credit points from the following:</td>
<td>Select 6 credit points from the following:</td>
</tr>
<tr>
<td>Sensing, Actuation and Control</td>
<td>Software Engineering Studio 1B</td>
<td>Engineering Work Experience</td>
<td>Engineering Workplace Reflection</td>
</tr>
<tr>
<td>Systems Testing and Quality Management</td>
<td>Select 6 credit points from the following:</td>
<td>Engineering Project Management</td>
<td>Software Engineering Studio 3B</td>
</tr>
<tr>
<td>Database Fundamentals</td>
<td>Technical subject choice (Software Engineering)</td>
<td>Software Engineering Studio 2B</td>
<td>Software Architecture</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select 6 credit points from the following:</td>
<td>Select credit points of options</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Technical subject choice (Software Engineering)</td>
<td></td>
</tr>
</tbody>
</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).

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.
PROFESSIONAL RECOGNITION
The Bachelor of Engineering (Honours) is accredited by Engineers Australia. 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, 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 the 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 (with construction specialisation), civil (with structures specialisation), civil and environmental, data, electrical, electronic, mechanical, mechanical and mechatronic, mechatronic, software, no specified major.

COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Biomedical Engineering major, Autumn commencing</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Communication</td>
<td>Chemistry 1</td>
<td>Cell Biology and Genetics</td>
<td>Human Anatomy and Physiology</td>
<td>Engineering Practice Preparation 2</td>
<td>Engineering Practice Reflection 2</td>
</tr>
<tr>
<td>Introduction to Electrical Engineering</td>
<td>Electronics and Circuits</td>
<td>Engineering Practice Preparation 1</td>
<td>Signal Theory</td>
<td>Select 18 credit points from the following:</td>
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<tr>
<td>Mathematical Modelling 2</td>
<td>Engineering Practice</td>
<td>Physiological Systems</td>
<td>Engineering Practice Reflection 1</td>
<td>Medical Imaging</td>
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<tr>
<td>Physical Modelling</td>
<td>Engineering Professional Experience 1</td>
<td>Engineering Project</td>
<td>Engineering Project Management</td>
<td>Neuroscience</td>
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<tr>
<td>Select 6 credit points from the following:</td>
<td>Work Integrated Learning 1</td>
<td>Fundamentals of Biomedical Engineering</td>
<td>Fundamentals of Biomedical Engineering</td>
<td>Mechatronics 2</td>
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</tr>
<tr>
<td>Programming</td>
<td></td>
<td>Medical Devices and Diagnostics</td>
<td>Medical Devices and Diagnostics</td>
<td>Advanced Data Analytics</td>
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<tr>
<td>Fundamentals</td>
<td></td>
<td>Select 6 credit points from the following:</td>
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<td>Introduction to Data Analytics</td>
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</tr>
<tr>
<td>Engineering</td>
<td></td>
<td>Medical Imaging</td>
<td></td>
<td>Engineering Biomedical Polymer</td>
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</tr>
<tr>
<td>Computations</td>
<td></td>
<td>Neuroscience</td>
<td></td>
<td>Engineering Professional Experience 2</td>
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</tr>
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<td>Select 6 credit points from the following:</td>
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<td></td>
<td>Work Integrated Learning 2</td>
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<tr>
<td>Introductory Digital Systems</td>
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<td>Advanced Data Analytics</td>
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<td></td>
</tr>
<tr>
<td>Mechatronics 1</td>
<td></td>
<td>Introduction to Data Analytics</td>
<td></td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Engineering Biomedical Polymer</td>
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</tbody>
</table>

Select 12 credit points of options

| Engineering Capstone | | | | |
| Select 6 credit points from the following: | | | | |
| Bioinformatics | | | | |
| Advanced Robotics | | | | |
| Neural Networks and Fuzzy Logic | | | | |
| Biomedical Instrumentation | | | | |
| Biomedical Signal Processing | | | | |

Select 12 credit points of options
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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.

### Civil Engineering major, Autumn commencing

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<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
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<tbody>
<tr>
<td>Physical Modelling</td>
<td>Construction</td>
<td>Structural Analysis</td>
<td>Geotechnical Engineering</td>
<td>Steel and Timber Design</td>
</tr>
<tr>
<td>Introduction to Civil and Environmental</td>
<td>Engineering Practice</td>
<td>Construction Materials</td>
<td>Select 6 credit points of options</td>
<td>Select 12 credit points of options</td>
</tr>
<tr>
<td>Engineering</td>
<td>Preparation 1</td>
<td>Engineering Practice</td>
<td>Engineering Practice Reflection 1</td>
<td>Computer Modelling and Design</td>
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<tr>
<td>Mathematical Modelling 2 Engineering</td>
<td>Engineering Professional Experience 1</td>
<td>Engineering Project Management</td>
<td>Engineering Practice Preparation 2</td>
<td>Engineering Capstone</td>
</tr>
<tr>
<td>Mechanics</td>
<td>Work Integrated Learning 1</td>
<td>Concrete Design</td>
<td>Engineering Professional Experience 2</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td>Surveying</td>
<td></td>
<td>Fluid Mechanics</td>
<td>Work Integrated Learning 2</td>
<td>Hydraulics and Hydrology</td>
</tr>
<tr>
<td>Chemistry and Materials Science</td>
<td></td>
<td>Road and Transport Engineering</td>
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<tr>
<td>Science</td>
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### Civil (Construction specialisation) Engineering major, Autumn commencing

<table>
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<tr>
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<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td>Construction</td>
<td>Structural Analysis</td>
<td>Management Principles</td>
<td>Steel and Timber Design</td>
</tr>
<tr>
<td>Physical Modelling</td>
<td>Engineering Practice</td>
<td>Construction Materials</td>
<td>Engineering Practice</td>
<td>Select 6 credit points from the following:</td>
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<tr>
<td>Introduction to Civil and Environmental</td>
<td>Preparation 1</td>
<td>Engineering Practice</td>
<td>Reflection 1</td>
<td>Steel and Timber Design</td>
</tr>
<tr>
<td>Engineering</td>
<td>Engineering Professional Experience 1</td>
<td>Engineering Project Management</td>
<td>Concrete Design</td>
<td>Construction Technology 4</td>
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<tr>
<td>Mathematical Modelling 2 Engineering</td>
<td>Work Integrated Learning 1</td>
<td>Concrete Design</td>
<td>Fluid Mechanics</td>
<td>Design Team Management</td>
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<td>Mechanics</td>
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<td>Road and Transport Engineering</td>
<td>Construction Technology 3</td>
<td>Management</td>
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<td></td>
<td>Environmental Planning and Law</td>
</tr>
<tr>
<td>Chemistry and Materials Science</td>
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<td></td>
<td></td>
<td>Road and Transport Engineering</td>
</tr>
<tr>
<td>Science</td>
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</tr>
</tbody>
</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).

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.
Civil (Structures specialisation) Engineering major, Autumn commencing

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 Robotics
Steel and Timber Design Engineering Practice Reflection 2
Select 6 credit points of options
Engineering Capstone Computer Modelling and Design
Select 6 credit points of options
Hydraulics and Hydrology

Civil and Environmental Engineering major, Autumn commencing

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
Principles of Environmental Engineering
Engineering Computing Engineering Practice Preparation 1
Engineering Professional Experience 1
Work Integrated Learning 1

Year 3
Engineering Economics and Finance
Construction Materials
Fluid Mechanics
Water Supply and Wastewater Engineering
Engineering Practice Preparation 2
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 Timber Design

Electrical Engineering major, Autumn commencing

Year 1
Mathematical Modelling 1
Engineering Communication
Introduction to Electrical 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
Select 6 credit points of options
Engineering Project Management
Select 12 credit points from the following:
Advanced Digital Systems
Introductory Control Electrical Machines
Power Circuit Theory Select 6 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
Advanced Engineering Computing Robotics
Steel and Timber Design Engineering Practice Reflection 2
Select 6 credit points of options
Engineering Capstone Computer Modelling and Design
Select 6 credit points of options

The course structures outlined in this course guide are based on a March (Autumn) intake. The structure may vary for a 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.
### Electronic Engineering major, Autumn commencing*

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maths Modelling 1</td>
<td>Engineering</td>
<td>Physical Modelling</td>
<td>Design and Innovation</td>
<td>Research Preparation</td>
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<td>Communication</td>
<td>Sensing, Actuation and Control</td>
<td>Fundamentals</td>
<td>Elective 3</td>
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<td>Fundamentals of C Programming</td>
<td>Electronics and Circuits</td>
<td>Entrepreneurship and Commercialisation</td>
<td>Electronic Engineering Design</td>
</tr>
<tr>
<td>Introduction to Electronic Engineering</td>
<td>Fundamentals Studio B</td>
<td>Fundamentals Studio B</td>
<td>Information and Signals</td>
<td>Professional Studio A</td>
</tr>
<tr>
<td>Maths Modelling 2</td>
<td>Engineering Practice</td>
<td>Engineering Practice</td>
<td>Sub-Major Fundamentals</td>
<td>Engineering Practice Ref 2</td>
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<tr>
<td>Network Fundamentals</td>
<td>Preparation 1</td>
<td>Engineering Professional Experience 1</td>
<td>Engineering Project Management</td>
<td>Honours Project</td>
</tr>
<tr>
<td>Introduction to Electrical Engineering</td>
<td>Experience 1</td>
<td>Work Integrated Learning 1</td>
<td>Elective 1</td>
<td>Elective 4, or Honours Project Extension</td>
</tr>
<tr>
<td>Fundamentals Studio A</td>
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<td></td>
<td>Work Integrated Learning 1</td>
<td>Electronic Engineering System</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Prof Studio B</td>
</tr>
</tbody>
</table>

### Mechanical Engineering major, Autumn commencing

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Modelling 1</td>
<td>Engineering</td>
<td>Engineering Practice</td>
<td>Engineering Practice</td>
<td>Mechanical and Mechatronic Design</td>
</tr>
<tr>
<td>Engineering</td>
<td>Communication</td>
<td>Preparation 1</td>
<td>Preparation 2</td>
<td>Engineering Research Preparation</td>
</tr>
<tr>
<td>Communication</td>
<td>Fundamentals of Engineering</td>
<td>Design and Innovation</td>
<td>Engineering Project Management</td>
<td>Robotics</td>
</tr>
<tr>
<td>Introduction to Mechanical and Mechatronic Engineering</td>
<td>Mechatronics 1</td>
<td>Fundamentals</td>
<td>Management</td>
<td>Engineering Practice Ref 2</td>
</tr>
<tr>
<td>Physical Modelling</td>
<td>Engineering</td>
<td>Electronics and Circuits</td>
<td>Advanced Manufacturing</td>
<td>Select 12 credit points of options</td>
</tr>
<tr>
<td>Introduction to Electrical Engineering</td>
<td>Experience 1</td>
<td>Machine Dynamics</td>
<td>Heat Transfer</td>
<td>Engineering Capstone</td>
</tr>
<tr>
<td>Engineering</td>
<td>Engineering Professional Experience 1</td>
<td>Mechanics of Solids</td>
<td>Engineering Professional Experience 2</td>
<td>Select 12 credit points of options</td>
</tr>
<tr>
<td>Chemistry and Materials</td>
<td></td>
<td>Thermodynamics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Science</td>
<td></td>
<td>Dynamics and Control</td>
<td></td>
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<td></td>
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</tbody>
</table>

### Mechanical and Mechatronic Engineering major, Autumn commencing

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Modelling 1</td>
<td>Engineering</td>
<td>Engineering Practice</td>
<td>Engineering Practice</td>
<td>Engineering Research Preparation</td>
</tr>
<tr>
<td>Engineering</td>
<td>Communication</td>
<td>Preparation 1</td>
<td>Preparation 2</td>
<td>Robotics</td>
</tr>
<tr>
<td>Communication</td>
<td>Fundamentals of Engineering</td>
<td>Design and Innovation</td>
<td>Engineering Project Management</td>
<td>Engineering Practice Ref 2</td>
</tr>
<tr>
<td>Introduction to Mechanical and Mechatronic Engineering</td>
<td>Mechatronics 1</td>
<td>Fundamentals</td>
<td>Management</td>
<td>Select 12 credit points of options</td>
</tr>
<tr>
<td>Physical Modelling</td>
<td>Engineering</td>
<td>Electronics and Circuits</td>
<td>Advanced Manufacturing</td>
<td>Emmauschutz and Commercialisation</td>
</tr>
<tr>
<td>Introduction to Electrical Engineering</td>
<td>Experience 1</td>
<td>Machine Dynamics</td>
<td>Heat Transfer</td>
<td>Select 12 credit points of options</td>
</tr>
<tr>
<td>Engineering</td>
<td>Engineering Professional Experience 1</td>
<td>Mechanics of Solids</td>
<td>Engineering Professional Experience 2</td>
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</tr>
<tr>
<td>Manufacturing</td>
<td></td>
<td>Thermodynamics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Engineering</td>
<td></td>
<td>Dynamics and Control</td>
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</table>

### Mechatronic Engineering major, Autumn commencing

<table>
<thead>
<tr>
<th>Year 1</th>
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<th>Year 3</th>
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<th>Year 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Modelling 1</td>
<td>Engineering</td>
<td>Engineering Practice</td>
<td>Engineering Practice</td>
<td>Engineering Research Preparation</td>
</tr>
<tr>
<td>Engineering</td>
<td>Communication</td>
<td>Preparation 1</td>
<td>Preparation 2</td>
<td>Robotics</td>
</tr>
<tr>
<td>Communication</td>
<td>Fundamentals of Engineering</td>
<td>Design and Innovation</td>
<td>Engineering Project Management</td>
<td>Engineering Practice Ref 2</td>
</tr>
<tr>
<td>Introduction to Mechanical and Mechatronic Engineering</td>
<td>Mechatronics 1</td>
<td>Fundamentals</td>
<td>Management</td>
<td>Select 12 credit points of options</td>
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<tr>
<td>Physical Modelling</td>
<td>Engineering</td>
<td>Electronics and Circuits</td>
<td>Advanced Manufacturing</td>
<td>Emmauschutz and Commercialisation</td>
</tr>
<tr>
<td>Introduction to Electrical Engineering</td>
<td>Experience 1</td>
<td>Machine Dynamics</td>
<td>Heat Transfer</td>
<td>Select 12 credit points of options</td>
</tr>
<tr>
<td>Engineering</td>
<td>Engineering Professional Experience 1</td>
<td>Mechanics of Solids</td>
<td>Engineering Professional Experience 2</td>
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</tr>
<tr>
<td>Manufacturing</td>
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<td>Thermodynamics</td>
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<tr>
<td>Engineering</td>
<td></td>
<td>Dynamics and Control</td>
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<tr>
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</tbody>
</table>

* Elements of the course structure may change.
Data Engineering major, Autumn commencing

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

Year 2
Design and Innovation Fundamentals
Information System Development Methodologies
Software Engineering Studio 1B
Engineering Practice Reflection 1
Select 6 credit points from the following:
   Technical subject choice (Data Engineering)

Year 3
Engineering Practice Preparation 1
Physical Modelling
Sensing, Actuation and Control
Information and Signals
Data Engineering Fundamentals Studio B
Engineering Professional Experience 1
Work Integrated Learning 1

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

Year 5
Entrepreneurship and Commercialisation
Engineering Research Preparation
Data Engineering Professional Studio B
Engineering Practice Reflection 2
Select 6 credit points of options
Engineering Capstone
Select 18 credit points of options

Software Engineering major, Autumn commencing

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
Design and Innovation Fundamentals
Information System Development Methodologies
Software Engineering Studio 1B
Engineering Practice Reflection 1
Select 6 credit points from the following:
   Technical subject choice (Software Engineering)

Year 3
Engineering Practice Preparation 1
Physical Modelling
Sensing, Actuation and Control
Information and Signals
Data Engineering Fundamentals Studio B
Engineering Professional Experience 1
Work Integrated Learning 1

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

Year 5
Entrepreneurship and Commercialisation
Engineering Research Preparation
Data Engineering Professional Studio B
Engineering Practice Reflection 2
Select 6 credit points of options
Engineering Capstone
Select 18 credit points of options

PROFESSIONAL RECOGNITION

The Bachelor of Engineering (Honours) is accredited by Engineers Australia. 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, mechanical, mechatronic, software, no specified major.

## 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
- Data Engineering Fundamentals Studio A

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

**Year 3**
- Engineering Economics and Finance
- Data Engineering Applications Studio B
- Select 6 credit points from the following:
  - Technical subject choice (Data Engineering)
- Select 6 credit points of options
- Interrogating Technology: Sustainability, Environment and Social Change
- Project BEngSc
- Select 12 credit points of options

### Electrical Engineering major

**Year 1**
- Mathematical Modelling 1
- Engineering Communication
- Introduction to Electrical 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
- Select 6 credit points of electives
- Project BEngSc
- Electrical Machines
- Introductory Control
- Select 6 credit points of electives

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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.
### CAREER OPPORTUNITIES

Career options include positions in engineering teams across the full spectrum of engineering activities. Specific career options depend on the major chosen.

* Elements of the course structure may change.
### 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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<tbody>
<tr>
<td>C09068</td>
<td>Bachelor of Engineering (Honours) Bachelor of Arts in International Studies</td>
<td>10</td>
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<td>March</td>
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<tr>
<td>C09070</td>
<td>Bachelor of Engineering (Honours) Bachelor of Business</td>
<td>10</td>
<td>$19,015</td>
<td>March</td>
<td>City</td>
<td>084091G</td>
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<tr>
<td>C09076</td>
<td>Bachelor of Engineering (Honours) Bachelor of Creative Intelligence and Innovation</td>
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<td>$19,015</td>
<td>March</td>
<td>City</td>
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<td>C09074</td>
<td>Bachelor of Engineering (Honours) Bachelor of Medical Science</td>
<td>10</td>
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<td>March</td>
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<tr>
<td>C09072</td>
<td>Bachelor of Engineering (Honours) Bachelor of Science</td>
<td>10</td>
<td>$19,015</td>
<td>March</td>
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<tr>
<td>C10136</td>
<td>Bachelor of Engineering Science Bachelor of Laws</td>
<td>11</td>
<td>$20,175</td>
<td>March</td>
<td>City</td>
<td>040713B</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.

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: HEALTH

nursing • health science • sport and exercise management • sport and exercise science • pathway to PHDPE teaching • pathway to physiotherapy • pathway to pharmacy

> Join a top-ranked program. UTS is ranked 4th for Nursing in the QS World University Subject Rankings 2017.

> 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 state-of-the-art clinical practice labs with cutting edge technology and robotic patients; experience a huge range of real-life health scenarios in a no-risk environment.

> 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: Health has worked with industry partners to ensure you graduate ready to excel in your chosen career.
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 (www.handbook.uts.edu.au).

DR TAMARA POWER
Director Health Simulation

“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.”

SIMIN PENG, CHINA
Bachelor of Nursing

“I love studying at UTS because of the supportive staff. If you have any questions they are very approachable. Knowing that my faculty cares about me encourages me 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.”

Our nursing degrees involve more than 800 HOURS of clinical placement, and sport and exercise courses involve 140 HOUR internships.
## 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 such as pharmacology or data analytics and information management. Students develop knowledge within a framework that can be tailored to suit their interests and needs. Some students may focus on learning how to use and interpret data to drive innovation and improvement in health systems. Alternatively, students may develop their knowledge of global health and international health priorities in order to contribute to overseas health initiatives and aid organisations. Other students may elect to focus on pharmacology, which can transition them to a degree in pharmacy and a career as a community, clinical or industrial pharmacist. Students who complete this course with the required electives and grade point average also meet current entry criteria for the Master of Physiotherapy (C04306).

## 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, pharmacology, no specified major.

## Course Structure
### No 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>Select 24 credit points from the following:</td>
</tr>
<tr>
<td>Introduction to Public Health</td>
<td>Data Science in Health Care</td>
<td>No specified major</td>
</tr>
<tr>
<td>Interpersonal Communication</td>
<td>Social, Emotional and Psychological Wellbeing</td>
<td>Diversity and Culture</td>
</tr>
<tr>
<td>Psychosocial Perspectives in Health</td>
<td>Select 6 credit points from the following:</td>
<td>Professional Placement</td>
</tr>
<tr>
<td>Evidence in Health Care</td>
<td>No specified major</td>
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</tr>
<tr>
<td>Principles of Primary Health Care</td>
<td>Indigenous Health and Wellbeing</td>
<td></td>
</tr>
<tr>
<td>Health Promotion and Advocacy</td>
<td>Arguments, Evidence and Intuition</td>
<td></td>
</tr>
<tr>
<td>Fundamentals of Epidemiology and Population Health</td>
<td>Health Project and Program Management and Evaluation</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points from the following:</td>
<td>Select 12 credit points from the following:</td>
</tr>
<tr>
<td></td>
<td>No specified major</td>
<td>No specified major</td>
</tr>
</tbody>
</table>

### 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>Data Science in Health Care</td>
<td>Achieving Universal Health Coverage</td>
</tr>
<tr>
<td>Introduction to Public Health</td>
<td>Social, Emotional and Psychological Wellbeing</td>
<td>Select 12 credit points from the following:</td>
</tr>
<tr>
<td>Interpersonal Communication</td>
<td>Select 6 credit points from the following:</td>
<td>Electives [Global Health]</td>
</tr>
<tr>
<td>Evidence in Health Care</td>
<td>No specified major</td>
<td>Diversity and Culture</td>
</tr>
<tr>
<td>Principles of Primary Health Care</td>
<td>Indigenous Health and Wellbeing</td>
<td>Global, Sexual, Reproductive, Maternal and Child Health</td>
</tr>
<tr>
<td>Health Promotion and Advocacy</td>
<td>Arguments, Evidence and Intuition</td>
<td>The Environment, Health and Sustainability</td>
</tr>
<tr>
<td>Fundamentals of Epidemiology and Population Health</td>
<td>Health Project and Program Management and Evaluation</td>
<td>Professional Placement</td>
</tr>
<tr>
<td></td>
<td>Global Human Rights and Health Equity</td>
<td></td>
</tr>
</tbody>
</table>

Electives [Global Health]
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.

Digital Health and Analytics 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
- Data Science in Health Care
- Social, Emotional and Psychological Wellbeing
- Select 6 credit points from the following:
  - Electives [Digital Health and Analytics]
  - Indigenous Health and Wellbeing
  - Arguments, Evidence and Intuition
  - Health Project and Program Management and Evaluation
  - Foundations of Health Information Management

Year 3
- Introduction to Digital Health
- Health Analytics
- Select 12 credit points from the following:
  - Electives [Digital Health and Analytics]
  - Professional Placement
  - Design and Evaluation in Digital Health
  - Advanced Health Analytics
  - Diversity and Culture

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
- Select 6 credit points from the following:
  - Electives [Pharmacology]
  - Statistical Design and Analysis
  - Pharmacology 1
  - Metabolic Biochemistry
  - Pharmacology 2
  - Diversity and Culture
  - Human Anatomy and Physiology
  - Professional Placement

CAREER OPPORTUNITIES

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

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.
## COURSE STRUCTURE

### Standard

**Year 1**
- Assessment and Therapeutics in Health Care 1
- Health and Homeostasis 1
- Human Life Course Development
- Health and Society
- Assessment and Therapeutics in Health Care 2
- Health and Homeostasis 2
- Professional Identity
- Communication and Diversity

**Year 2**
- Evidence for Nursing
- Pathophysiology and Pharmacology 1
- Contemporary Indigenous Health and Wellbeing
- Pathophysiology and Pharmacology 2
- Fundamentals of Mental Health Nursing
- Nursing Care of the Older Person
- Medical Surgical Nursing
- Family and Children’s Nursing

**Year 3**
- 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: Mental Health
- Navigating Transition
- Leadership for Beginning Practice

### Accelerated Graduate Entry

**Year 1**
- Health and Homeostasis
- Health Assessment and Nursing Therapeutics
- Medical Surgical Nursing (Graduate Entry)
- Evidence for Nursing
- Health and Society
- Pathophysiology and Pharmacology 1
- Fundamentals of Mental Health Nursing (Graduate Entry)
- Communication and Diversity
- Pathophysiology and Pharmacology 2
- Family and Children’s Nursing
- Nursing Care of the Older Person
- Contemporary Indigenous Health and Wellbeing

**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: Mental Health
- Navigating Transition
- Leadership for Beginning Practice
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
Provides eligibility to apply for registration as a Nurse with the Nursing and Midwifery Board of Australia. 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/behavioral 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 2009 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 schools. 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 2016. 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 2017 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>Select 12 credit points of electives</td>
</tr>
<tr>
<td>Managing People and Organisations</td>
<td>Research Methods for Sport and Exercise</td>
<td>Sport and Exercise Internship</td>
</tr>
<tr>
<td>Sport and Society</td>
<td>Managing Professional Sport</td>
<td>Select 12 credit points of electives</td>
</tr>
<tr>
<td>Functional Anatomy</td>
<td>Exercise Prescription</td>
<td>Sport Marketing and Media</td>
</tr>
<tr>
<td>Strength and Conditioning</td>
<td>Nutrition for Health and Physical Activity</td>
<td>Law and Ethics for Managers</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.

**COURSE STRUCTURE**

<table>
<thead>
<tr>
<th>Exercise Science major</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year 1</td>
<td>Exercise Physiology</td>
<td>Sport and Exercise Science Practicum</td>
</tr>
<tr>
<td>Structural Anatomy</td>
<td>Contemporary Health Issues</td>
<td>Complex Exercise Management</td>
</tr>
<tr>
<td>Biomechanics of Human Motion</td>
<td>Sport and Exercise Psychology</td>
<td>Select 6 credit points of electives</td>
</tr>
<tr>
<td>Physiological Bases of Human Movement</td>
<td>Research Methods for Sport and Exercise</td>
<td>Skill Acquisition</td>
</tr>
<tr>
<td>Sport and Society</td>
<td>Applied Biomechanics</td>
<td>Applied Exercise Physiology</td>
</tr>
<tr>
<td>Functional Anatomy</td>
<td>Exercise Prescription</td>
<td>Exercise Rehabilitation</td>
</tr>
<tr>
<td>Strength and Conditioning</td>
<td>Nutrition for Health and Physical Activity</td>
<td>Select 6 credit points of electives</td>
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<tr>
<td>Health and Lifespan Development</td>
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<tr>
<td>The Organisation of Australian Sport</td>
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</tbody>
</table>
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<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>
<tr>
<td>C09018</td>
<td>Bachelor of Nursing (Honours)</td>
<td>2</td>
<td>A$17,270</td>
<td>March, July*</td>
<td>City</td>
<td>015936F</td>
</tr>
<tr>
<td>C09057</td>
<td>Bachelor of Sport and Exercise Science (Honours)</td>
<td>2</td>
<td>A$14,790</td>
<td>March</td>
<td>Moore Park</td>
<td>043289M</td>
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</tbody>
</table>

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.

COMBINED DEGREES

* Mid-year intake considered on a case-by-case basis.

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: INFORMATION TECHNOLOGY

business information systems management • computer graphics and animation • computing science • data analytics • enterprise systems development • games development • interaction design • internetworking and applications • professional practice

> Join a top international program. UTS ranked in the top 100 for Computer Science and Information Systems in the 2017 QS World University Subject Rankings.

> Learn the relevant skills employers want. UTS: Information Technology is a leader in practice-based IT education in Australia. Our courses are regularly reviewed by our industry advisory committee, so our graduates are prepared for employment in the industry.


> Build industry connections and gain real-world experience. Undertake a year of work experience with the Diploma in IT Professional Practice.

> Fast-track your preparation for Cisco industry certification at UTS, a Cisco Networking Academy.

> Connect with a creative environment in collaborative theatres and classrooms. UTS: Information Technology graduates have worked on the Academy Award winning Happy Feet, as well as Avatar, King Kong and The Matrix.

> UTS is a leader in robotics and artificial intelligence education. It is the first Australian university to have a PR2 second generation personal robot. This allows UTS and its research partners to explore new possibilities in social robotics and smart digital ecosystems.

> Improve your business, technical and teamwork skills, and discover how to solve business problems using IT.

IN 2016 UTS: ENGINEERING & IT HAD:

6260 undergraduate coursework students

1330 international undergraduate coursework students

55 students go overseas on global exchange

Scholarship opportunities

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

For further information visit www.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 (www.handbook.uts.edu.au).

VITALY KUZENKOV, RUSSIA
Bachelor of Science in Information Technology and 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.”

The renewable energy generated on the roof of the FEIT building is enough to power 20% of its energy requirements.
### 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, data analytics and artificial intelligence, enterprise systems development, interaction design, internetworking and applications, 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

**Interaction Design major**

<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 Linear Dynamical Systems</td>
<td>Select one of the following:</td>
<td>Principles of Programming Languages</td>
<td>Technology Research Methods</td>
</tr>
<tr>
<td>Introduction to Statistics</td>
<td>Networking Essentials</td>
<td>Prototyping Physical Interaction</td>
<td>Project Management and the Professional</td>
</tr>
<tr>
<td>Introduction to Information Systems</td>
<td>Strategic e-Business Technologies</td>
<td>Data Structures and Algorithms</td>
<td>Select 6 credit points from the following:</td>
</tr>
<tr>
<td>Select 6 credit points of options</td>
<td>Web Systems</td>
<td>Computing Science Studio 2</td>
<td>Human-centred Design Methods</td>
</tr>
<tr>
<td>Introduction to Mathematical Analysis and Modelling</td>
<td>Applications Programming</td>
<td>Technology Research Preparation</td>
<td>Introduction to Computer Game Design</td>
</tr>
<tr>
<td>Discrete Mathematics</td>
<td>Computing Science Studio 1</td>
<td>Interaction Design Studio</td>
<td>Introduction to Computer Game Programming</td>
</tr>
<tr>
<td>Business Requirements Modelling</td>
<td>Theory of Computing Science Design</td>
<td>Select 6 credit points of options</td>
<td>Introduction to Data Analytics</td>
</tr>
<tr>
<td>Database Fundamentals</td>
<td>Fundamentals of Interaction Design</td>
<td></td>
<td>Application Development in the iOS Environment</td>
</tr>
<tr>
<td></td>
<td>Interactive Media</td>
<td></td>
<td>Application Development with .NET</td>
</tr>
<tr>
<td></td>
<td>Advanced Interaction Design</td>
<td></td>
<td>Mobile Applications Development</td>
</tr>
</tbody>
</table>

**Select 6 credit points of options**

**Select 6 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

**Honours Project**

**Select 6 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 6 credit points of options**
### Business Information Systems Management major

**Year 1**
- Introduction to Linear Dynamical Systems
- Introduction to Statistics
- Introduction to Information Systems
- Select 6 credit points of options
- Introduction to Mathematical Analysis and Modelling
- Discrete Mathematics
- Business Requirements Modelling
- Database Fundamentals

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

**Year 3**
- Principles of Programming Languages
- Innovations for Global Relationship Management
- Data Structures and Algorithms
- Computing Science Studio 2
- Technology Research Preparation
- Network Design
- Internetworking Project
- Select 6 credit points of options

**Year 4**
- Technology Research Methods
- Project Management and the Professional
- Business Process and IT Strategy
- Select 6 credit points of options
- Honours Project
- Select 6 credit points from the following:
  - Systems Testing and Quality Management
  - IT Operations Management
  - Entrepreneurship and Commercialisation
  - Select 6 credit points of options

### Internetworking and Applications major

**Year 1**
- Introduction to Linear Dynamical Systems
- Introduction to Statistics
- Introduction to Information Systems
- Select 6 credit points of options
- Introduction to Mathematical Analysis and Modelling
- Discrete Mathematics
- Business Requirements Modelling
- Database Fundamentals

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

**Year 3**
- Principles of Programming Languages
- Mobile Networking
- Data Structures and Algorithms
- Computing Science Studio 2
- Technology Research Preparation
- Network Design
- Internetworking Project
- Select 6 credit points of options

**Year 4**
- Technology Research Methods
- Project Management and the Professional
- Select 6 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
  - Network Security Application Development in the iOS Environment
  - Internet of Things
  - Select 6 credit points of options
  - Honours Project
  - Select 6 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
    - Network Security Application Development in the iOS Environment
    - Internet of Things
    - Select 6 credit points of options
### Enterprise Systems Development major

**Year 1**
- Introduction to Linear Dynamical Systems
- Introduction to Statistics
- Introduction to Information Systems
- Select 6 credit points of options
- Introduction to Mathematical Analysis and Modelling
- Discrete Mathematics
- Business Requirements Modelling
- Database Fundamentals

**Year 2**
- Select one of the following:
  - Networking Essentials
  - Strategic e-Business Technologies
  - Web Systems
  - Applications Programming
  - Computing Science Studio 1
  - Theory of Computing Science
  - Fundamentals of Interaction Design
- 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

**Year 3**
- Data Structures and Algorithms
- Computing Science Studio 2
- Principles of Programming Languages
- Software Engineering Practice
- Systems Development Project
- Select 6 credit points of options

**Year 4**
- Technology Research Methods
- Select 6 credit points of options
- Select 6 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
  - Project Management and the Professional
- Select 6 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
  - Honours Project

### Mathematical Analysis major

**Year 1**
- Introduction to Linear Dynamical Systems
- Introduction to Statistics
- Introduction to Information Systems
- Select 6 credit points of options
- Introduction to Mathematical Analysis and Modelling
- Discrete Mathematics
- Business Requirements Modelling
- Database Fundamentals

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

**Year 3**
- Principles of Programming Languages
- Simulation Modelling
- Data Structures and Algorithms
- Computing Science Studio 2
- Technology Research Preparation
- Differential Equations
- Stochastic Processes
- Select 6 credit points of options

**Year 4**
- Technology Research Methods
- Project Management and the Professional
- Advanced Calculus
- Select 6 credit points of options
- Honours Project
- Modern Analysis with Applications
- Select 6 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.
Data Analytics and Artificial Intelligence major

Year 1
Introduction to Linear Dynamical Systems
Introduction to Statistics
Introduction to Information Systems
Select 6 credit points of options
Introduction to Mathematical Analysis and Modelling
Discrete Mathematics
Business Requirements Modelling
Database Fundamentals

Year 2
Select one of the following:
- Networking Essentials
- Strategic e-Business Technologies
- Web Systems
- Applications Programming
- Computing Science Studio 1
- Theory of Computing Science
- Introduction to Data Analytics
Select 12 credit points from the following:
- Database Programming
- Image Processing and Pattern Recognition
- Advanced Data Analytics
- Object-relational Databases
- Data Visualisation and Visual Analytics
- Quantum Computing
- Data Driven and Intelligent Robotics
Select 6 credit points of options

Year 3
Principles of Programming Languages
Analytics Capstone Project
Data Structures and Algorithms
Computing Science Studio 2
Technology Research Preparation
Select 12 credit points from the following:
- Database Programming
- Image Processing and Pattern Recognition
- Advanced Data Analytics
- Object-relational Databases
- Data Visualisation and Visual Analytics
- Quantum Computing
- Data Driven and Intelligent Robotics
Select 6 credit points of options

Year 4
Technology Research Methods
Project Management and the Professional
Select 6 credit points from the following:
- Database Programming
- Image Processing and Pattern Recognition
- Advanced Data Analytics
- Object-relational Databases
- Data Visualisation and Visual Analytics
- Quantum Computing
- Data Driven and Intelligent Robotics
Select 6 credit points of options

Operations Research major

Year 1
Introduction to Linear Dynamical Systems
Introduction to Statistics
Introduction to Information Systems
Select 6 credit points of options
Introduction to Mathematical Analysis and Modelling
Discrete Mathematics
Business Requirements Modelling
Database Fundamentals

Year 2
Select one of the following:
- Networking Essentials
- Strategic e-Business Technologies
- Web Systems
- Applications Programming
- Computing Science Studio 1
- Theory of Computing Science
- Linear Algebra
- Probability and Random Variables
- Regression Analysis
Select 6 credit points of options

Year 3
Principles of Programming Languages
Optimisation in Quantitative Management
Data Structures and Algorithms
Computing Science Studio 2
Technology Research Preparation
Nonlinear Methods in Quantitative Management
Network and Combinatorial Optimisation
Select 6 credit points of options

Year 4
Technology Research Methods
Project Management and the Professional
Select 6 credit points from the following:
- Quantitative Management Practice
- Simulation Modelling
Select 6 credit points of options
Honours Project
Select 6 credit points from the following:
- Stochastic Processes
- Honours Seminar 1
Select 6 credit points of options

Statistics major

Year 1
Introduction to Linear Dynamical Systems
Introduction to Statistics
Introduction to Information Systems
Select 6 credit points of options
Introduction to Mathematical Analysis and Modelling
Discrete Mathematics
Business Requirements Modelling
Database Fundamentals

Year 2
Select one of the following:
- Networking Essentials
- Strategic e-Business Technologies
- Web Systems
- Applications Programming
- Computing Science Studio 1
- Theory of Computing Science
- Linear Algebra
- Probability and Random Variables
- Regression Analysis
Select 6 credit points of options

Year 3
Principles of Programming Languages
Optimisation in Quantitative Management
Data Structures and Algorithms
Computing Science Studio 2
Technology Research Preparation
Sample Surveys
Advanced Statistical Modelling
Select 6 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
Select 6 credit points of options
Honours Project
Multivariate Data Analysis
Select 6 credit points of options

Professional recognition

The Faculty of Engineering and Information Technology is seeking accreditation from the Australian Computer Society.

Career Opportunities

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, network security, 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 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, interaction design, international management, international studies, introductory economics, introductory finance, language other than English (LOTE), marketing principles, physics, quantitative management, scientific computing, specialist country studies, statistical modelling.

### COURSE STRUCTURE

<table>
<thead>
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<th>SUB-MAJOR</th>
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<th>Year 2</th>
<th>Year 3</th>
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<td>Database Fundamentals</td>
<td>Project Management and the Professional</td>
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<td>Introduction to Information Systems</td>
<td>Information System Development Methodologies</td>
<td>Business Process and IT Strategy</td>
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<td>Programming Fundamentals</td>
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<td>Entrepreneurship and Commercialisation</td>
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<td>Project Management and the Professional</td>
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<td>Advanced Data Analytics</td>
<td>Object-relational Databases</td>
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<td>Software Engineering Practice</td>
<td>Enterprise Development with .NET</td>
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<td>Systems Development Project</td>
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<td>Applications Programming</td>
<td>Select 6 credit points of electives</td>
<td>Cloud Computing and Software as a Service</td>
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<td>Application Development with .NET</td>
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<td>Object-relational Databases</td>
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<td>Advanced Internet Programming</td>
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<td>Mobile Applications Development</td>
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<td>Application Development in the iOS Environment</td>
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<td>Select 18 credit points of electives</td>
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</tbody>
</table>
**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
- Select 12 credit points of options
- Interactive Media
- Prototyping Physical Interaction
- Select 12 credit points of options

**Year 3**
- Project Management and the Professional Interaction Design Studio
- Select 6 credit points of options
- 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 12 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
- Fundamentals of Security
- Select 6 credit points of electives
- Web Services Development
- Mobile Networking
- Network Design
- Select 6 credit points of electives

**Year 3**
- Project Management and the Professional Internetworking Project
- 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
  - Network Security
- Select 12 credit points of electives
- 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
  - Network Security
  - Mobile Computing Project
  - Internet of Things
- Select 12 credit points of electives

**PROFESSIONAL RECOGNITION**
Graduates are eligible for professional-level membership of the Australian Computer Society.

**CAREER OPPORTUNITIES**
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, interaction design, international management, international studies, introductory economics, introductory finance, language other than English, marketing principles, physics, quantitative management, scientific computing, specialist country studies, statistical modelling.

COURSE STRUCTURE

Business Information Systems Management major

<table>
<thead>
<tr>
<th>Year</th>
<th>Course Title</th>
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<tbody>
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<td>Communication for IT Professionals</td>
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<td>Introduction to Information Systems</td>
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<td>Collaborative Business Processes</td>
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<td>Database Fundamentals</td>
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<td>Information System Development Methodologies</td>
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<td>Finance and IT Professionals</td>
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<td>Innovations for Global Relationship Management</td>
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<td>3</td>
<td>Career Management for IT Professionals</td>
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<td>IT Experience Reflection</td>
</tr>
<tr>
<td>4</td>
<td>Business Process and IT Strategy Project Management and the Professional</td>
</tr>
<tr>
<td></td>
<td>Select 12 credit points of options</td>
</tr>
<tr>
<td></td>
<td>Strategic IT Project</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points from the following:</td>
</tr>
<tr>
<td></td>
<td>IT Operations Management Systems Testing and Quality Management</td>
</tr>
<tr>
<td></td>
<td>Entrepreneurship and Commercialisation</td>
</tr>
<tr>
<td></td>
<td>Select 12 credit points of options</td>
</tr>
</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.
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

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
Select 6 credit points of options
Software Engineering Practice
Systems Development Project
Select 6 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 6 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 6 credit points of options
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 12 credit points of options
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 18 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.

**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
- Select 12 credit points of options
- Interactive Media
- Prototyping Physical Interaction
- 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 Interaction Design Studio
- Select 6 credit points of options
- 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

**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
- Fundamentals of Security
- Select 6 credit points of options
- Web Services Development
- Mobile Networking
- Network Design
- Select 6 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
  - Network Security
- Select 12 credit points of options
- 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
  - Network Security Internet of Things

**PROFESSIONAL RECOGNITION**

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

**CAREER OPPORTUNITIES**

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>
</tr>
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<tbody>
<tr>
<td>C09019</td>
<td>Bachelor of Science (Honours) in Information Technology</td>
<td>2</td>
<td>A$19,375</td>
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## COMBINED DEGREES

<table>
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<tr>
<th>Course code</th>
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<th>Sessions</th>
<th>Fees per session</th>
<th>Intake</th>
<th>Location</th>
<th>CRICOS code</th>
</tr>
</thead>
<tbody>
<tr>
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<td>059726G</td>
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<td>C10327</td>
<td>Bachelor of Science in Information Technology Bachelor of Creative Intelligence and Innovation</td>
<td>8</td>
<td>A$19,375</td>
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<tr>
<td>C10245</td>
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<td>10</td>
<td>A$20,175</td>
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<td>064382G</td>
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</tbody>
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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.
Choose **International Studies** to:

> Combine the study of a country and its language and culture with a degree in another professional study area.

> Learn practical language skills in Chinese, French, German, Italian, Japanese or Spanish, from beginner to advanced levels.

> Study for a year in your chosen country and language of specialisation as part of your degree and immerse yourself in the language and culture.

> Enhance your employability internationally through a deeper learning of the elements of language, cultural understanding and international experience.

> Gain a global perspective, international awareness and intercultural competence, and a country speciality, valued by employers in the global workplace.

Choose **Global Studies** to:

> Think outside the box and gain the confidence to take your career to the world.

> Choose from four majors, including: business studies, communication, management studies or legal studies.

> Examine processes of globalisation: political, economic and cultural, and learn about institutions and theories involved in the area of your major.

> Gain real-world experience by completing a self-sourced industry placement within a globally oriented organisation. Support is available from the school of International Studies if a student cannot secure a placement.

> Equip yourself to work in globally oriented businesses, the diplomatic service, public sector agencies or organisations.

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**IN 2016 UTS: ARTS AND SOCIAL SCIENCES**

<table>
<thead>
<tr>
<th>Students</th>
<th>Undergraduate coursework students</th>
<th>International undergraduate coursework students</th>
<th>Students go overseas for In-Country Study</th>
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</thead>
<tbody>
<tr>
<td><strong>3810</strong></td>
<td><strong>260</strong></td>
<td><strong>190</strong></td>
<td></td>
</tr>
</tbody>
</table>

www.internationalstudies.uts.edu.au/future
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 (www.handbook.uts.edu.au).

VADIMS BRODSKIS, LATVIA
Bachelor of Information Technology
Bachelor of International Studies

"When I was looking at universities in Sydney, UTS was one of the only ones which offered a double degree of IT and International studies majoring in Japanese.

My exchange year in Japan was amazing. I would recommend it to every student who comes; if you can go overseas for exchange it will open up your horizons. I wouldn’t say I was a close-minded person but I didn’t really have much of an idea about other cultures aside from my own Latvia-Russian culture and Australia. Going to Japan and living there for one year was a truly phenomenal experience. Now I’m confident that if I go there again for work, traveling or for study, I know what I need to do, I know how to get it done."
BACHELOR OF GLOBAL STUDIES

COURSE DESCRIPTION
The UTS Bachelor of Global Studies is a highly versatile, professionally oriented arts degree that takes globalisation in its political, economic and cultural manifestations as its core subject of inquiry. Students 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 select a major in business, management, communications, health or legal studies and integrate the perspectives and skills from their professional major into their core subjects. Students may choose to study overseas on session-long exchange or short-term work and/or study placements, or to learn another language. Students undertake either a domestic or international work placement.

This course prepares graduates for careers and contributions in a world of social and cultural diversity being transformed by globalisation, allowing students to draw connections between global phenomena and local practices in work and life.

AREAS OF STUDY
Political, economic and cultural aspects of processes, institutions and theories of globalisation. Sub-major options in language other than English, specialist country studies, or international exchange.

MAJORS
Business studies, health, communication, legal studies, management studies.

SUB-MAJORS
Language other than English (LOTE); specialist country studies; communication; transnational studies; reading Australia; environmental studies; Aboriginal studies; media studies; screen studies; bodies, genders, rights.

COURSE STRUCTURE
Typical full-time program
Year 1
Globalisation in Historical Perspective
Select 18 credit points of options
Contemporary Global Economy
Cultures of Globalisation
Select 12 credit points of options

Year 2
Global Governance
Select 18 credit points of options
Select 24 credit points of options

Year 3
Global Problem Solving
Select 18 credit points of options
Global Work Project
Select 18 credit points of options

Typical full-time program with exchange session
Year 1
Globalisation in Historical Perspective
Select 18 credit points of options
Contemporary Global Economy
Cultures of Globalisation
Select 12 credit points of options

Year 2
Global Governance
Select 18 credit points of options
Exchange electives

Year 3
Global Problem Solving
Select 18 credit points of options
Global Work Project
Select 18 credit points of options

CAREER OPPORTUNITIES
Career options include roles in a number of globally oriented workplaces that include government and non-government organisations as well as a variety of companies, ranging from small start-ups to major multinationals. Career options are often based on the choice of major within the degree. Graduates have roles as marketing coordinators, brand strategists, business managers and paralegals. Graduates have also worked in industries including finance, hospitality, tourism, digital media and the not-for-profit sector.

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 132
English language requirements: See page 133

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).
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UTS: LAW

business law • communication law • creative intelligence and innovation law • economics law • engineering law • information technology law • international studies law • law • forensics law • medical science law • science law

> Join a top-ranked program. UTS is ranked 43rd for Law in the QS World University Subject Rankings 2017.

> 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.

> Complete 75 days practical experience in a legal environment with the Practical Legal Training (PLT) option. UTS is the only university in Sydney to offer an accredited PLT Program.*

> Enhance your personal and professional leadership skills through our award-winning and unique Brennan Justice and Leadership Program.

> Build up your professional skills and work experience through a local or international internship. Students have the opportunity to intern at Redfern Legal Centre’s International Student Clinic for a session of immersive, practice-oriented learning.

> 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.

> Develop global work-ready skills. Graduate attributes are embedded in all law subjects and assess mastery with authentic assessment tasks to prepare you to thrive and succeed in your future professional career.

> Connect with your peers. Join our active Law Students’ Society, which holds social events and runs legal competitions like mooting, witness examination and client interviewing.

IN 2016 UTS: LAW HAD:

1715 undergraduate coursework students
12 international undergraduate coursework students
15 students go overseas on global exchange

* UTS’s PLT Program is accredited with the NSW LPAB (Legal Profession Admission Board)

www.law.uts.edu.au/future
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 (www.handbook.uts.edu.au).

**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.”

**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.”

**OVER 1850**

UTS: Law students participate in the Brennan Justice and Leadership program
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 the business sector in a wide range of roles and responsibilities. Today’s law graduates are called upon to advise and counsel parties, act as negotiators, manage project teams and resolve disputes.

This course provides full-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, torts, indigenous, justice studies, public international law, remedies.

COURSE STRUCTURE

Year 1
Foundations of Law
Ethics Law and Justice
Criminal Law and Procedure
Contracts
Torts
Australian Constitutional Law

Year 2
Real Property
Civil Practice
Commercial Law
Remedies
Equity and Trusts
Administrative Law
Evidence

Year 3
Public International Law
Select 18 credit points from the following:
Options (Law UG)
Corporate Law
Select 6 credit points from the following:
Jurisprudence
Animal Law and Policy in Australia
Judgment and the Rule of Law
Gender, Law and Sexuality
Law and Literature
Wickedness and Vice
Select 12 credit points from the following:
Options (Law UG)

Year 4
Select 24 credit points from the following:
Options
Practical Experience
Transactional Practice
Legal and Professional Skills
Litigation and Estate Practice
Select 6 credit points from the following:
Options

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 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.
UTS: SCIENCE

advanced science • analytics • advanced materials and data science •
applied 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

> Gain a globally recognised, practical
and professionally relevant qualification
to enhance your employability. Our
courses are relevant, research-driven
and practical. Courses are combined
with scientific knowhow and professional
skills to equip our graduates for the best
employment opportunities.

> Learn from research-active lecturers
and internationally recognised
academics. Professor Dayong Jin is
recognised as a world leader and was
awarded the 2017 John Booker medal
by the Australian Academy of Science,
and also won the 2015 Eureka Award for
Excellence in Interdisciplinary Scientific
Research for his group’s invention
Super Dots®.

> Develop global work-ready skills.
Graduate attributes are embedded in
all science and mathematics subjects,
preparing you for the global work force.

> Study in modern, world-class facilities.
Our facilities are modern, well-equipped
and fitted with modern scientific and
analytical instruments to facilitate
learning and research. Our off-campus
learning sites facilitate fieldwork for
marine and environmental studies.
Computer laboratories offer 24/7 access
and are powered up with the latest
mathematical and statistical software.

> Learn in the UTS Super Lab, the
first of its kind in Australia. It is a
multidisciplinary laboratory that can run
up to 12 different classes at the same
time for over 200 students. Students can
be running experiments across different
areas of sciences such as physics,
chemistry and biology, giving them a
’sneak-peek’ into subjects that can
potentially be taken in the next session,
or even as an elective.

> Engage with industry and access
experienced lecturers. Our lecturers
are also experts and leaders in
their discipline with strong industry
connections. Students will also have
opportunities to network with potential
employers and industry partners through
guest lectures and careers forums.

IN 2016 UTS: SCIENCE HAD:

3660 undergraduate coursework students
240 international undergraduate coursework students
10 students go overseas on global exchange
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 (www.handbook.uts.edu.au).

GIOVANNI MELLISA SOESANTO, INDONESIA

Bachelor of Medical Science
Bachelor of Business

“TI chose this course as it offers two degrees in four years and the opportunity to work in both fields, plus both Science and Business are two of my favourite study areas!

UTS has a revitalised campus with new buildings and facilities. But the best part is that we get to do lots of hands-on practical experiments in labs. The facilities are modern and well-equipped, and we also get great support from senior students when we need it.”

DR OLGA SHIMONI
Chancellor’s Postdoctoral Research Fellow & Senior Lecturer, School of Mathematical and Physical Sciences

“UTS: Science is a vibrant and dynamic faculty that have invested in its research facilities, including one of the best STEM facilities, nanophotonics research labs, state-of-the-art chemical and biological facilities. The technologies that I’m currently developing in my lab will help to shed light on the causes and progression of ageing-related disorders. Specifically, I am developing nanostructures, whose medical effects are superior to those that are realised from any simple individual components. In particular, nanostructures will be based on the combination of nanoparticles with different physical/chemical properties to create a one multifunctional unit that will enable simultaneous drug delivery, bioimaging, biosensing and treatment.”
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 bioprospect 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 clinical 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 and data science, environmental biotechnology, infection and immunity, pre-medicine.

**COURSE STRUCTURE**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
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<tbody>
<tr>
<td>Chemistry 1</td>
<td>General Microbiology</td>
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<tr>
<td>Physical Aspects of Nature</td>
<td>Pharmacology 1</td>
<td>Immunology 2</td>
</tr>
<tr>
<td>Cell Biology and Genetics</td>
<td>Select 6 credit points of electives</td>
<td>Clinical Bacteriology</td>
</tr>
<tr>
<td>Quantitative Skills for Science</td>
<td>Advanced Research Project 1</td>
<td>Virology</td>
</tr>
<tr>
<td>Chemistry 2 [Advanced]</td>
<td>Drug Discovery</td>
<td>Select 6 credit points of electives</td>
</tr>
<tr>
<td>Molecular Biology 1</td>
<td>Immunology 1</td>
<td>Advanced Research Project 3</td>
</tr>
<tr>
<td>Human Anatomy and Physiology Research Methods</td>
<td>Select 6 credit points of electives</td>
<td>Select 6 credit points from the following:</td>
</tr>
</tbody>
</table>

| | Advanced Research Project 2 | Bacterial Pathogenesis |
| | | Parasitology |
| | | Select 6 credit points from the following: |
| | | Proteomics |
| | | Pharmacology 2 |
| | | Select 6 credit points of electives |
| | | Advanced Research Project 4 |
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.

**COURSE STRUCTURE**

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Scientific Practice</td>
<td>Mathematics for Physical Science</td>
<td>Select 12 credit points of electives</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>Applied Electronics and Interfacing</td>
<td>Solid-state Science and Nanodevices</td>
</tr>
<tr>
<td>Mathematical Modelling for Science</td>
<td>Biomedical Physics Methodology</td>
<td>Medical Imaging Technology</td>
</tr>
<tr>
<td>Foundations of Physics</td>
<td>Cell Biology and Genetics</td>
<td>Biomedical Physics Project</td>
</tr>
<tr>
<td>Chemistry 2</td>
<td>Imaging Science</td>
<td>Advanced Medical Device Technology</td>
</tr>
<tr>
<td>Statistics and Mathematics for Science</td>
<td>Quantum Physics</td>
<td>Select 12 credit points of electives</td>
</tr>
<tr>
<td>Human Anatomy and Physiology</td>
<td>Bionanotechnology</td>
<td></td>
</tr>
<tr>
<td>Physics in Action</td>
<td>Human Pathophysiology</td>
<td></td>
</tr>
</tbody>
</table>

**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.

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**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**

<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>Elective 2</td>
</tr>
<tr>
<td>Cell Biology and Genetics</td>
<td>Metabolic Biochemistry</td>
<td>Select 18 credit points from the following:</td>
</tr>
<tr>
<td>Statistical Design and Analysis</td>
<td>Histology</td>
<td></td>
</tr>
<tr>
<td>Principles of Scientific Practice</td>
<td>Elective 1</td>
<td>Molecular Biology 2</td>
</tr>
<tr>
<td>Chemistry 2</td>
<td>Molecular Biology 1</td>
<td>Clinical Bacteriology</td>
</tr>
<tr>
<td>Biocomplexity</td>
<td>Select 18 credit points from the following:</td>
<td>Medical and Diagnostic Biochemistry</td>
</tr>
<tr>
<td>Human Anatomy and Physiology</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical Aspects of Nature</td>
<td>Analytical Biochemistry</td>
<td>Haematology 2</td>
</tr>
<tr>
<td></td>
<td>Epidemiology and Public Health</td>
<td>Immunology 2</td>
</tr>
<tr>
<td></td>
<td>Microbiology</td>
<td>Elective 4</td>
</tr>
<tr>
<td></td>
<td>Immunology 1</td>
<td>Select 12 credit points from the following:</td>
</tr>
<tr>
<td></td>
<td>Elective 3</td>
<td>Transfusion Science</td>
</tr>
<tr>
<td></td>
<td>Haematology 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Biochemistry, Genes and Disease</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Parasitology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Anatomical Pathology</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>Major</th>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Biotechnology major</td>
<td>Principles of Scientific Practice</td>
<td>Immunology 2</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td></td>
<td>Chemistry 1</td>
<td>General Microbiology</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td></td>
<td>Cell Biology and Genetics</td>
<td>Biotechnology</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td></td>
<td>Physical Aspects of Nature</td>
<td>Pharmacology 1</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td></td>
<td>Molecular Biology 1</td>
<td>Business and Organisational Property Commercialisation</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td></td>
<td>Integrating Business Perspectives</td>
<td>Intellectual Property Commercialisation</td>
<td>Medical Biotechnology</td>
</tr>
<tr>
<td></td>
<td>Immunology 1</td>
<td>Medical Devices and Diagnostics</td>
<td>Bioreactors and Bioprocessing</td>
</tr>
<tr>
<td></td>
<td>Human Anatomy and Physiology</td>
<td>Pharmacology 2</td>
<td>Business Strategy and Scenario Planning Biobusiness</td>
</tr>
<tr>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Environmental Biotechnology major</td>
<td>Principles of Scientific Practice</td>
<td>Water Supply and Wastewater Engineering</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td></td>
<td>Chemistry 1</td>
<td>General Microbiology</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td></td>
<td>Cell Biology and Genetics</td>
<td>Biotechnology</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td></td>
<td>The Biosphere</td>
<td>Experimental Design and Sampling</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td></td>
<td>Molecular Biology 1</td>
<td>Environmental Remediation</td>
<td>Environmental Biotechnology</td>
</tr>
<tr>
<td></td>
<td>Integrating Business Perspectives</td>
<td>Intellectual Property Commercialisation</td>
<td>Bioreactors and Bioprocessing</td>
</tr>
<tr>
<td></td>
<td>Biocomplexity</td>
<td>Environmental Chemistry</td>
<td>Business Strategy and Scenario Planning Biobusiness</td>
</tr>
<tr>
<td></td>
<td>Business and Organisational Strategy</td>
<td>Principles of Environmental Engineering</td>
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</tr>
<tr>
<td>Computational Biotechnology major</td>
<td>Principles of Scientific Practice</td>
<td>Programming for Data Analysis</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td></td>
<td>Chemistry 1</td>
<td>General Microbiology</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td></td>
<td>Cell Biology and Genetics</td>
<td>Biotechnology</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td></td>
<td>Mathematical Modelling 1</td>
<td>Introduction to Data Analytics</td>
<td>Select 6 credit points of options</td>
</tr>
<tr>
<td></td>
<td>Molecular Biology 1</td>
<td>Introduction to Information Systems</td>
<td>Bioinformatics</td>
</tr>
<tr>
<td></td>
<td>Integrating Business Perspectives</td>
<td>Intellectual Property Commercialisation</td>
<td>Bioreactors and Bioprocessing</td>
</tr>
<tr>
<td></td>
<td>Programming Fundamentals</td>
<td>Business and Organisational Strategy</td>
<td>Business Strategy and Scenario Planning Biobusiness</td>
</tr>
<tr>
<td></td>
<td>Mathematical Modelling 2</td>
<td>Advanced Data Analytics</td>
<td></td>
</tr>
</tbody>
</table>

### Course Details

- **Course code:** C10172
- **CRICOS code:** 026806C
- **Course duration:** 3 years
- **Number of credit points:** 144
- **Intake:** March, July
- **Location:** City
- **Fees:** A$17,930 per session (see page 138 for further fees information)
- **Academic and additional requirements:** See page 132
- **English language requirements:** See page 133

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.

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).
### 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
- Select 6 credit points of electives
- Animal Behaviour and Physiology
- Plant Physiology and Ecophysiology
- Select 12 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 analysts 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.

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
  - Biological Criminalisation
  - Bioinformatics

**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
- Spectroscopy and Structure
- Criminalistics
- Analytical Instrumentation 1
- Organic Chemistry 2
- Chemical Criminalistics
- Select 6 credit points from the following:
  - Forensic Toxicology
  - Document Examination and Counterfeiting
  - Chemistry and Pharmacology of Recreational Drugs
  - Fire and Explosion Investigation

**Year 3**
- Electives (Science UG)
- Forensic Intelligence
- Complex Cases
- Forensic Research Project
- Select 6 credit points from the following:
  - Forensic Toxicology
  - Document Examination and Counterfeiting
  - Chemistry and Pharmacology of Recreational Drugs
  - Fire and Explosion Investigation

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: C10387
CRICOS code: 092381J
Course duration: 3 years
Number of credit points: 144
Intake: March, July
Location: City
Fees: A$17,930 per session (see page 138 for further fees information)

Academic and additional requirements:
See page 132

English language requirements:
See page 133
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
- Homicide Investigation
- Major Scene Investigation
- Investigation of Human Remains
- Select 6 credit points from the following:
  - Chemical Criminalistics
  - Document Examination and Counterfeiting
  - Fire and Explosion Investigation
  - Spectroscopy and Structure

Year 3
- 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
- Fundamentals of Security
- Forensic Statistics
- Forensic Imaging

Year 2
- Crime Scene Investigation
- Network 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 code: C10186
CRICOS code: 023606B
Course duration: 4 years
Number of credit points: 192
Intake: March, July
Location: City
Fees: $16,895 per session (see page 138 for further fees information)
Academic and additional requirements: See page 132
English language requirements: See page 133

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, choosing a country major choice from the Bachelor of Arts in International Studies, including China, where students learn Mandarin and study 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, psychology, 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
- Select 6 credit points of electives
- Animal Behaviour and Physiology
- Plant Physiology and Ecophysiology
- Marine Communities
- Select 6 credit points of electives

**Year 3**
- GIS and Remote Sensing
- Fisheries Resources
- Aquatic Ecology
- Select 6 credit points of electives
- Coral Reef Ecosystems
- Environmental Protection and Management
- Marine Productivity and Climate Change
- Select 6 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 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.

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

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
Metabolic Biochemistry
General Microbiology
Physiological Systems
Elective 1
Molecular Biology 1
Human Pathophysiology
Select 12 credit points from the following:
  Analytical Biochemistry
  Epidemiology and Public Health
  Microbiology
  Immunology 1
  Haematology 1

Year 3
Pharmacology 1
Neuroscience
Elective 2
Elective 3
Pharmacology 2
Medical and Applied Physiology
Elective 4
Medical Devices and Diagnostics

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>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Scientific Practice</td>
<td>Organic Chemistry 1</td>
<td>Analytical Instrumentation 1</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>Physiological Systems</td>
<td>Metabolic Biochemistry</td>
</tr>
<tr>
<td>Mathematical Modelling for Science</td>
<td>Physical Chemistry 1</td>
<td>Pharmacology 1</td>
</tr>
<tr>
<td>Cell Biology and Genetics</td>
<td>Select 6 credit points of electives</td>
<td>Strategies in Drug Synthesis</td>
</tr>
<tr>
<td>Chemistry 2</td>
<td>Organic Chemistry 2</td>
<td>Analytical Instrumentation 2</td>
</tr>
<tr>
<td>Statistics and Mathematics for Science</td>
<td>Inorganic Chemistry 1</td>
<td>Pharmacology 2</td>
</tr>
<tr>
<td>Human Anatomy and Physiology</td>
<td>Spectroscopy and Structure</td>
<td>Select 12 credit points of electives</td>
</tr>
<tr>
<td>Select 6 credit points of electives</td>
<td>Medicinal Chemistry</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.

COURSE STRUCTURE

Applied Chemistry major, Autumn commencing

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Modelling for Science</td>
<td>Organic Chemistry 1</td>
<td>Analytical Instrumentation 1</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>Skills for the Professional Chemist</td>
<td>Inorganic Chemistry 2</td>
</tr>
<tr>
<td>Foundations of Physics</td>
<td>Physical Chemistry 1</td>
<td>Polymer Science</td>
</tr>
<tr>
<td>Principles of Scientific Practice</td>
<td>Select 6 credit points of electives</td>
<td>Select 6 credit points of electives</td>
</tr>
<tr>
<td>Chemistry 2</td>
<td>Organic Chemistry 2</td>
<td>Analytical Instrumentation 2</td>
</tr>
<tr>
<td>Statistics and Mathematics for Science</td>
<td>Inorganic Chemistry 1</td>
<td>Physical Chemistry 2</td>
</tr>
<tr>
<td>Physics in Action</td>
<td>Spectroscopy and Structure</td>
<td>Surface Processes</td>
</tr>
<tr>
<td>Select 6 credit points from the following:</td>
<td>Select 6 credit points of electives</td>
<td>Select 6 credit points of electives</td>
</tr>
<tr>
<td>Cell Biology and Genetics</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Introduction to Materials</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Human Anatomy and Physiology</td>
<td></td>
<td></td>
</tr>
</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.

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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.
Applied Physics major, Autumn commencing

**Year 1**
- Mathematical Modelling for Science
- Chemistry 1
- Foundations of Physics
- Principles of Scientific Practice
- Chemistry 2
- Statistics and Mathematics for Science
- Introduction to Materials
- Physics in Action

**Year 2**
- Nanomaterials
- Energy Science and Technology
- Mathematics for Physical Science
- Select 6 credit points of electives
- Advanced Mechanics
- Quantum Physics
- Optics
- Select 6 credit points of electives

**Year 3**
- Applied Electronics and Interfacing
- Solid-state Science and Nanodevices
- Computational Physics
- Select 6 credit points of electives
- Nanophotonics
- Scanning Probe and Electron Microscopy
- Measurement and Analysis of Physical Processes
- Select 6 credit points of electives

Biomedical Science major, Autumn commencing

**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

Biotechnology major, Autumn commencing

**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
- Biotechnology
- Elective 1
- Molecular Biology 1
- Elective 2
- Select 12 credit points from the following:
  - Analytical Biochemistry
  - Epidemiology and Public Health
  - Microbiology
  - Immunology 1
  - Haematology 1

**Year 3**
- Molecular Biology 2
- Biobusiness
- Immunology 2
- Elective 3
- Bioreactors and Bioprocessing
- Elective 4
- Select 6 credit points from the following:
  - Transfusion Science
  - Biochemistry, Genes and Disease
  - Parasitology
  - Microbial Ecology
  - Select 12 credit points from the following:

Mathematics major, Autumn commencing

**Year 1**
- Introduction to Quantitative Management
- Principles of Scientific Practice
- Introduction to Linear Dynamical Systems
- 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 6 credit points from the following:
  - Mathematical Methods
  - Nonlinear Methods in Quantitative Management
  - Network and Combinatorial Optimisation
  - Stochastic Processes
  - Discrete Mathematics
  - Sample Surveys
  - Advanced Statistical Modelling
  - Select 6 credit points of options

**Year 3**
- Advanced Calculus
- Select 12 credit points from the following:
  - Quantitative Management Practice
  - Design and Analysis of Experiments
  - Programming for Data Analysis
  - Select 6 credit points of options
  - Select 18 credit points from the following:
    - Mathematical Methods
    - Nonlinear Methods in Quantitative Management
    - Network and Combinatorial Optimisation
    - Stochastic Processes
    - Discrete Mathematics
    - Sample Surveys
    - Advanced Statistical Modelling
    - Select 6 credit points of options
Medical Science major, Autumn commencing

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</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 3</td>
</tr>
<tr>
<td>Principles of Scientific Practice</td>
<td>Elective 1</td>
<td>Elective 2</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 Devices and Diagnostics</td>
</tr>
<tr>
<td>Human Anatomy and Physiology</td>
<td>Select 12 credit points from the following:</td>
<td>Medical and Applied Physiology</td>
</tr>
<tr>
<td>Physical Aspects of Nature</td>
<td>Analytical Biochemistry</td>
<td>Elective 4</td>
</tr>
<tr>
<td></td>
<td>Epidemiology and Public Health</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Microbiology</td>
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<tr>
<td></td>
<td>Immunology 1</td>
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<td></td>
<td>Haematology 1</td>
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</tbody>
</table>

Nanotechnology major, Autumn commencing

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mathematical Modelling for Science</td>
<td>Mathematics for Physical Science</td>
<td>Applied Electronics and Interfacing</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>Physical Chemistry 1</td>
<td>Molecular Nanotechnology</td>
</tr>
<tr>
<td>Foundations of Physics</td>
<td>Nanomaterials</td>
<td>Solid-state Science and Nanodevices</td>
</tr>
<tr>
<td>Principles of Scientific Practice</td>
<td>Select 6 credit points of electives</td>
<td>Select 6 credit points of electives</td>
</tr>
<tr>
<td>Chemistry 2</td>
<td>Bionanotechnology</td>
<td>Surface Processes</td>
</tr>
<tr>
<td>Statistics and Mathematics for Science</td>
<td>Quantum Physics</td>
<td>Nanophotonics</td>
</tr>
<tr>
<td>Introduction to Materials</td>
<td>Optics</td>
<td>Scanning Probe and Electron Microscopy</td>
</tr>
<tr>
<td>Physics in Action</td>
<td>Select 6 credit points of electives</td>
<td></td>
</tr>
</tbody>
</table>

Statistics major, Autumn commencing

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Quantitative Management</td>
<td>Linear Algebra</td>
<td>Advanced Calculus</td>
</tr>
<tr>
<td>Principles of Scientific Practice</td>
<td>Optimisation in Quantitative Management</td>
<td>Select 6 credit points from the following:</td>
</tr>
<tr>
<td>Introduction to Linear Dynamical Systems</td>
<td>Simulation Modelling</td>
<td>Design and Analysis of Experiments</td>
</tr>
<tr>
<td>Introduction to Statistics</td>
<td>Select 6 credit points of options</td>
<td>Programming for Data Analysis</td>
</tr>
<tr>
<td>Regression Analysis</td>
<td>Differential Equations</td>
<td>Select 12 credit points of options</td>
</tr>
<tr>
<td>Foundation subject choice B</td>
<td>Programming for Informatics</td>
<td>Select 6 credit points from the following:</td>
</tr>
<tr>
<td>Introduction to Mathematical Analysis and Modelling</td>
<td>Select 12 credit points from the following:</td>
<td>Sample Surveys</td>
</tr>
<tr>
<td>Probability and Random Variables</td>
<td>Sample Surveys</td>
<td>Advanced Statistical Modelling</td>
</tr>
<tr>
<td></td>
<td>Advanced Statistical Modelling</td>
<td>Stochastic Processes</td>
</tr>
<tr>
<td></td>
<td>Stochastic Processes</td>
<td>Analytics Capstone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select 12 credit points from the following:</td>
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<tr>
<td></td>
<td></td>
<td>Mathematical Methods</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Nonlinear Methods in Quantitative Management</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Network and Combinatorial Optimisation</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Stochastic Processes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Discrete Mathematics</td>
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<td></td>
<td></td>
<td>Sample Surveys</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Advanced Statistical Modelling</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select 6 credit points of options</td>
</tr>
</tbody>
</table>

Environmental Sciences major, Autumn commencing

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Principles of Scientific Practice</td>
<td>Ecology</td>
<td>Select 18 credit points from the following:</td>
</tr>
<tr>
<td>Chemistry 1</td>
<td>Experimental Design and Sampling</td>
<td>Aquatic Ecology</td>
</tr>
<tr>
<td>The Biosphere</td>
<td>Geological Processes</td>
<td>Biodiversity Conservation</td>
</tr>
<tr>
<td>Statistical Design and Analysis</td>
<td>Select 6 credit points of electives</td>
<td>Fisheries Resources</td>
</tr>
<tr>
<td>Cell Biology and Genetics</td>
<td>Select 18 credit points from the following:</td>
<td>GIS and Remote Sensing</td>
</tr>
<tr>
<td>Biocomplexity</td>
<td>Environmental Remediation</td>
<td>Select 6 credit points of electives</td>
</tr>
<tr>
<td>Environmental Chemistry</td>
<td>Marine Communities</td>
<td>Select 18 credit points from the following:</td>
</tr>
<tr>
<td></td>
<td>Plant Physiology and Ecophysiology</td>
<td>Environmental Protection and Management</td>
</tr>
<tr>
<td></td>
<td>Microbial Ecology</td>
<td>Stream and Lake Assessment</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points of electives</td>
<td>Coral Reef Ecosystems</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marine Productivity and Climate Change</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Semi-arid Ecology</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select 6 credit points of electives</td>
</tr>
</tbody>
</table>

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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.
No specified major, Autumn commencing

This is our most flexible major, enabling you to study core science and mathematics subjects while specialising in your areas of interest and aspiration. In the first year, you’ll study the core subjects of your chosen foundation stream. They are five foundation streams namely mathematical sciences, chemistry, physics, environmental and life sciences.

At the end of first year, you can either continue within the foundation stream or choose not to follow a major, instead opting to study a mix of subjects and keep your career options open.

This major is a great option if you’re undecided over which major to pursue. It allows you to study a broad range of subjects in first year before deciding on a major in second year.

It also enables you to familiarise yourself with different areas of science and maths, and to discuss your interests and options with lecturers.

### Mathematical Sciences Stream

**Year 1**
- Introduction to Quantitative Management
- Introduction to Linear Dynamical Systems
- Introduction to Statistics
- Introduction to Mathematical Analysis and Modelling
- Probability and Random Variables
- Principles of Scientific Practice
- Regression Analysis


**Year 2**
Elective x 2

**Year 3**
Elective x 2

### Chemistry Stream

**Year 1**
- Principles of Scientific Practice
- Chemistry 1
- Mathematical Modelling for Science
- Foundations of Physics
- Chemistry 2
- Statistics and Mathematics for Science Physics in Action
Select one of the following:
- Cell Biology and Genetics
- Human Anatomy and Physiology
- Introduction to Materials

**Year 2**
Elective x 2

**Year 3**
Elective x 2

### Physics Stream

**Year 1**
- Mathematical Modelling for Science
- Chemistry 1
- Foundations of Physics
- Principles of Scientific Practice
- Statistics and Mathematics for Science Physics in Action
- Introduction to Materials

**Year 2**
Elective x 2

**Year 3**
Elective x 2

### Environmental Stream

**Year 1**
- Principles of Scientific Practice
- Chemistry 1
- The Biosphere
- Statistical Design and Analysis
- Biocomplexity
- Cell Biology and Genetics
- Physical Aspects of Nature
- Environmental Chemistry

**Year 2**
Choose six subjects from Level 2 subject choices [Life and Environmental Sciences], visit [www.handbook.uts.edu.au/directory/cbk90598.html](http://www.handbook.uts.edu.au/directory/cbk90598.html)
Elective x 2

**Year 3**
Elective x 2

### Life Sciences Stream

**Year 1**
- Cell Biology and Genetics
- Chemistry 1
- Principles of Scientific Practice
- Statistical Design and Analysis
- Chemistry 2
- Physical Aspects of Nature
- Biocomplexity
- Human Anatomy and Physiology

**Year 2**
Choose six subjects from Level 2 subject choices [Life and Environmental Sciences], visit [www.handbook.uts.edu.au/directory/cbk90598.html](http://www.handbook.uts.edu.au/directory/cbk90598.html)
Elective x 2

**Year 3**
Elective x 2
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.

BACHELOR OF SCIENCE IN ANALYTICS

COURSE DESCRIPTION
The Bachelor of Science in Analytics focuses on the analytical skills and technical knowledge that underpin the sophisticated data analysis tools on which key aspects of business activity rely. These tools enable industry to capitalise on big data by gaining insights through expert interpretation of results of statistical and other quantitative analyses. In this course students study key areas of business activity and develop a broad range of mathematical, statistical, computational and data management skills, as well as experience in the use of the information technology required for modern data analysis.

Business and other organisations require skills that provide competitive advantage in today’s dynamic marketplace. Innovation in industry depends on the ability to quickly test ideas and strategies against evidence. This evidence is often embedded in a firm’s big data, and decision-making is driven by the application of predictive modelling and optimisation strategies to this data. Data science and analytics are keys to success in knowledge-based industries and in delivering high-value data products. This program equips students to practise as data science and analytics professionals, developing information technology skills, expertise in statistics and mathematics, and familiarity with key areas of business and policy development.

AREAS OF STUDY
Mathematical analysis and modelling, data analysis, probability, data analytics, database fundamentals, quantitative management.

MAJORS
Consumer analytics, operations analysis, risk management, financial mathematics.

COURSE STRUCTURE

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Linear Dynamical Systems</td>
<td>Consumer Behaviour</td>
<td>Introduction to Data Analytics</td>
</tr>
<tr>
<td>Introduction to Quantitative Management</td>
<td>Database Fundamentals</td>
<td>Programming for Data Analysis</td>
</tr>
<tr>
<td>Introduction to Statistics</td>
<td>Linear Algebra</td>
<td>Select 12 credit points from the following:</td>
</tr>
<tr>
<td>Regression Analysis</td>
<td>Design and Analysis of Experiments</td>
<td>Discrete Mathematics</td>
</tr>
<tr>
<td>Marketing Foundations</td>
<td>Marketing Research</td>
<td>Advanced Calculus</td>
</tr>
<tr>
<td>Introduction to Mathematical Analysis and Modelling</td>
<td>Sample Surveys</td>
<td>Optimisation in Quantitative Management</td>
</tr>
<tr>
<td>Probability and Random Variables</td>
<td>Select 6 credit points from the following:</td>
<td>Simulation Modelling</td>
</tr>
<tr>
<td>Programming for Informatics</td>
<td>International Marketing</td>
<td>Differential Equations</td>
</tr>
<tr>
<td></td>
<td>Marketing Channels</td>
<td>Nonlinear Methods in Quantitative Management</td>
</tr>
<tr>
<td></td>
<td>Select 6 credit points from the following:</td>
<td>Network and Combinatorial Optimisation</td>
</tr>
<tr>
<td></td>
<td>e-Business Trading</td>
<td>Stochastic Processes</td>
</tr>
<tr>
<td></td>
<td>Object-relational Databases</td>
<td>Advanced Statistical Modelling</td>
</tr>
<tr>
<td></td>
<td>Database Programming</td>
<td>Analytics Capstone</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Select 6 credit points from the following:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>International Marketing</td>
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<tr>
<td></td>
<td></td>
<td>Marketing Channels</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marketing Analytics and Decisions</td>
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<td>Marketing Planning and Strategy</td>
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<td>Select 6 credit points from the following:</td>
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<tr>
<td></td>
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<tr>
<td></td>
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<td>Advanced Data Analytics</td>
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<td>Object-relational Databases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Database Programming</td>
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</table>

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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:
  - 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
Select 6 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
- 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, 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
- Advanced Calculus
- Optimisation in Quantitative Management
- Differential Equations
- Nonlinear Methods in Quantitative Management
- Network and Combinatorial Optimisation
- Stochastic Processes

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
- Advanced Data Analytics
- 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

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.
Financial Mathematics major, 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
  - e-Business Trading
  - Advanced Data Analytics
  - 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 Analytics
  - 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 12 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>
<th>CRICOS code</th>
</tr>
</thead>
<tbody>
<tr>
<td>C09078</td>
<td>Bachelor of Biomedical Physics (Honours)</td>
<td>2</td>
<td>A$17,930</td>
<td>March, July</td>
<td>City</td>
<td>084272C</td>
</tr>
<tr>
<td>C09022</td>
<td>Bachelor of Biotechnology (Honours)</td>
<td>2</td>
<td>A$17,930</td>
<td>March, July</td>
<td>City</td>
<td>043283F</td>
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<td>C09050</td>
<td>Bachelor of Forensic Science (Honours) in Applied Chemistry</td>
<td>2</td>
<td>A$17,930</td>
<td>March, July</td>
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<tr>
<td>C09031</td>
<td>Bachelor of Medical Science (Honours)</td>
<td>2</td>
<td>A$17,930</td>
<td>March, July</td>
<td>City</td>
<td>060706A</td>
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<td>C09077</td>
<td>Bachelor of Medicinal Chemistry (Honours)</td>
<td>2</td>
<td>A$17,930</td>
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<td>A$16,895</td>
<td>March, July</td>
<td>City</td>
<td>088440D</td>
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<td>C09026</td>
<td>Bachelor of Science (Honours) in Applied Chemistry</td>
<td>2</td>
<td>A$17,930</td>
<td>March, July</td>
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<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$17,930</td>
<td>March, July</td>
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<td>040709K</td>
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<td>C09023</td>
<td>Bachelor of Science (Honours) in Biomedical Science</td>
<td>2</td>
<td>A$17,930</td>
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<td>C09029</td>
<td>Bachelor of Science (Honours) in Environmental Sciences</td>
<td>2</td>
<td>A$17,930</td>
<td>March, July</td>
<td>City</td>
<td>022683G</td>
</tr>
<tr>
<td>C09020</td>
<td>Bachelor of Science (Honours) in Mathematics</td>
<td>2</td>
<td>A$17,930</td>
<td>March, July</td>
<td>City</td>
<td>017876G</td>
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<tr>
<td>C09046</td>
<td>Bachelor of Science (Honours) in Nanotechnology</td>
<td>2</td>
<td>A$17,930</td>
<td>March, July</td>
<td>City</td>
<td>059184M</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.

### 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>
</tr>
</thead>
<tbody>
<tr>
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<td>Bachelor of Advanced Science Bachelor of Creative Intelligence and Innovation</td>
<td>8</td>
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<td>March, July</td>
<td>City</td>
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<tr>
<td>C09075</td>
<td>Bachelor of Engineering (Honours) Bachelor of Medical Science Diploma in Professional Engineering Practice</td>
<td>12</td>
<td>A$19,015</td>
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<td>Bachelor of Engineering (Honours) Bachelor of Science</td>
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<td>City</td>
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<tr>
<td>C09073</td>
<td>Bachelor of Engineering (Honours) Bachelor of Science Diploma in Professional Engineering Practice</td>
<td>12</td>
<td>A$19,015</td>
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<tr>
<td>C10388</td>
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<td>C10389</td>
<td>Bachelor of Forensic Science Bachelor of Creative Intelligence and Innovation</td>
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<td>A$17,930</td>
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<td>C10391</td>
<td>Bachelor of Forensic Science Bachelor of Laws</td>
<td>10</td>
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<td>C10164</td>
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<td>12</td>
<td>A$16,895</td>
<td>March</td>
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<tr>
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<td>Bachelor of Medical Science Bachelor of Arts in International Studies</td>
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<tr>
<td>C10163</td>
<td>Bachelor of Medical Science Bachelor of Business</td>
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<td>A$20,175</td>
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<td>C10330</td>
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<td>C10126</td>
<td>Bachelor of Science Bachelor of Laws</td>
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<tr>
<td>C10385</td>
<td>Bachelor of Science in Analytics Bachelor of Arts in International Studies</td>
<td>10</td>
<td>A$16,895</td>
<td>March</td>
<td>City</td>
<td>088439G</td>
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</tbody>
</table>
UTS: TRANSDISCIPLINARY 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.

bachelor of creative intelligence and innovation (BCII) • bachelor of technology and innovation (BTi) • diploma in innovation (DipInn)

> **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.

Photos: 1 2 3 4 David Lawrey 5 Anna Zhu
“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 is a new industrial revolution... in fact a new technological revolution, a revolution of work, ideas and of course education.”

“From speaking to employers is that they are looking for graduates who can drive change by really exploring and understanding complex problems at a very deep level and from multiple perspectives. Being able to work across disciplinary boundaries and with different partners means that they can engage more creatively and productively within organisations wanting to innovate.”

“As a highly curious person, I was driven to this degree because it became a structured, expressive outlet for my questioning and thoughts. With much uncertainty surrounding employment and industry in the future, it seemed the only thing I was certain about was that my education had to be different. A highlight of BCII learning, even in its early stages, is the constant reminder that today is mine and so is tomorrow. Working closely with Australian and global companies who see value in our education and our energy has given me the confidence to nurture my own entrepreneurial and innovative spirit. We, as people of creative agency, do not have to worry about conquering the future, as we will be the ones who may pave the way.”

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 (www.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

<table>
<thead>
<tr>
<th>Year</th>
<th>Course Description</th>
</tr>
</thead>
</table>
| 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 |

INDUSTRIAL TRAINING/PROFESSIONAL PRACTICE
Transdisciplinary collaboration occurs within a diversity of complex, dynamic and networked contexts. The course integrates a range of live, real-world projects and industry experience, either locally or internationally. All students complete an internship in Year 2, providing opportunities for mentored professional experience and active engagement with industry. This is in addition to the integrated real-world projects and industry exposure provided throughout the course.

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 transdisciplinary approach, the course engages students with open, complex and networked problems and in doing so, engenders attributes around complex systems thinking, creating value in problem solving and inquiry, imaginative and ethical citizenship and entrepreneurial/innopreneurial skills as well as developing the ability to effectively employ inter- and transdisciplinary practices themselves. These attributes provide graduates with the ability to identify and develop solutions to some of the most complex issues that face their disciplines and society.

The Diploma in Innovation is taken concurrently with an undergraduate coursework degree program at UTS. The focus around creative intelligence and innovation and entrepreneurial knowledge, practices, perspectives and strategies drawn from a diverse range of discipline areas complements students’ undergraduate studies.

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.
COMBINED DEGREES WITH THE BACHELOR OF CREATIVE INTELLIGENCE AND INNOVATION
(25 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/January (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
July session
Problems to Possibilities
December session
Creative Practice and Methods

Year 2
Professional Degree Subjects
July session
Past, Present, Future Innovation
February session
Creativity and Complexity

Year 3
Professional Degree Subjects
July session
Leading Innovation
December session
Initiatives and Entrepreneurship

Year 4
Session 1 (March-June)
Envisioning Futures
Select From: Innovation Internship A or Speculative Start-Up
Innovation Capstone: Research and Development
Session 2 (August-November)
Professional Practice at the cutting edge
Innovation Internship B
Innovation Capstone: Realisation and Transformation

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.
<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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<td>March</td>
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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.
WHO IS UTS:INSEARCH?
UTS:INSEARCH is the pathway provider to the University of Technology Sydney (UTS) and an integral part of the UTS community.

The range of UTS:INSEARCH pathways that lead to a UTS degree include: leading Academic English programs, higher education diplomas and on behalf of UTS, UTS Foundation Studies. These programs are designed to prepare students for success in their university studies.

In preparation for their studies at UTS, over 3,000 students from around the world study at UTS:INSEARCH every year; with many going on to work in their dream careers.

UTS:INSEARCH offers pathways in the following areas of study:
> English
> UTS Foundation Studies
> Business
> Communication
> Design and Architecture
> Engineering
> Information Technology
> Science

* Based upon successful completion of your diploma with no more than two subject failures.

WHY CHOOSE UTS:INSEARCH?
1. FAST TRACK into second year of a UTS bachelor 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. Depending on your chosen course, you can fast track into the second year of your chosen course at UTS.

2. Strong connection with UTS.
Academic courses are designed in collaboration with the corresponding UTS faculties.

3. High record of success.
Each year, over 90% of UTS:INSEARCH diploma graduates are eligible for direct entry into the second year of a UTS degree#.

4. Supportive learning environment and caring culture.
Learn in small classes within a highly supportive learning culture that includes access to academic advisers, weekly learning assistance sessions and study skills workshops.

5. State-of-the-art facilities.
Students will learn in our newly renovated campus and also enjoy access to UTS’s world-class facilities.

6. Highly innovative and practical course structures.
To give you the perfect preparation for UTS and your career.

7. Strong sense of community.
Enjoy access to hundreds of social, sports, networking and cultural clubs.

8. Central location.
The campus is located in the city, next to UTS and major transport links.

* Source: UTS:INSEARCH 2016 Articulation Tracking Report

www.insearch.edu.au
WHAT COURSES DOES UTS:INSEARCH OFFER?

UTS:INSEARCH ENGLISH PROGRAMS

English programs for all levels. Whether you want to improve your general communication skills, pass an important exam or attend an English speaking university, we have the course for you. Choose from Academic English (AE), General English (GE) and IELTS Preparation courses.

Acquire the skills needed to succeed at university and in your career. Academic English is not only about achieving success in English but also acquiring the skills you will need to succeed at university and beyond. From basic study skills to preparing for your first job interview, you will learn to become confident in academic, social or work situations.

We are the experts in English language education. UTS:INSEARCH is a top English language provider in Australia with more than 25 years of English teaching experience.

The most advanced English curriculum on the market. The curriculum addresses contemporary topics to ensure that our graduates have the most modern and wide-ranging vocabulary to communicate effectively in global conversation.

Move on to other pathways or university. After completing various levels of English, move on to pathway programs including UTS Foundation Studies, UTS:INSEARCH diplomas and UTS undergraduate and postgraduate degrees.

Discover more about UTS:INSEARCH English Programs. For all details about entry and articulation requirements for this program please visit www.insearch.edu.au

UTS FOUNDATION STUDIES

The UTS Foundation Studies program is the perfect preparation program for Australian university.

Designed for Year 11 graduates. This program has been specifically designed to meet the needs of international students who have successfully completed their year 11 studies. It provides a pathway to UTS:INSEARCH diplomas, or for successful students, entry into the first year of a degree at UTS.

Get into most undergraduate degrees at UTS. This program opens doors to a wide range of study options and career choices.

Get the most out of your studies with blended learning. Benefit from a combination of using state-of-the-art technology, traditional classroom teaching and online self-paced learning. This innovative approach will allow for a more engaging and interactive student experience that will help improve learning outcomes.

Acquire a broad education. You will study a range of different subjects such as Mathematics/English/Technology, Society and Science all under the one program. This means that you will gain a solid knowledge and understanding across a broad range of disciplines.

Offered over 8 or 12 months. The UTS Foundation Studies program is offered over 8 months [Standard] and 12 months [Extended]. Entry into either program will be determined by a student’s academic qualification at time of entry.

Discover more about the UTS Foundation Studies Program. For all details about entry and articulation requirements for this program please visit www.insearch.edu.au

UTS Foundation Studies is delivered by UTS:INSEARCH on behalf of UTS. The UTS Foundation Studies program meets the requirements for foundation programs that have been registered on CRICOS for delivery in Australia, providing academic preparation for entry into first year undergraduate study to overseas students.

MEET SOME OF OUR GRADUATES

THUY KHA, VIETNAM

"Studying the Diploma of Design and Architecture really highlighted what my creative strengths were and the career direction that I want to go in. It helped me to build my confidence and gave me a strong foundation for studying at UTS."


JIAN FENG, CHINA

"The class sizes at UTS:INSEARCH are relatively small, so we had opportunities to discuss topics in depth with our teachers who were approachable and always happy to answer questions. When it came to starting my engineering degree at UTS, I felt knowledgeable, confident and well prepared."


PAUL GIORDANO, AUSTRALIA

"I remember receiving my university entrance results, and I remember being disappointed, because it didn’t allow me entry into the course I wanted. When I found out there was an option of overcoming not receiving the entrance results I needed, I was excited. Studying at UTS:INSEARCH definitely got me to where I am today."

**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.

**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 www.insearch.edu.au

**WHICH PATHWAY IS RIGHT FOR YOU?**

Pathway 1

<table>
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<tr>
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<th>UTS:INSEARCH</th>
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<td>High School (Year 12)</td>
<td>Academic English Program (if required)^</td>
<td>UTS:INSEARCH Diploma 8, 12 or 16 months</td>
<td>UTS 1st or 2nd year Bachelor Degree</td>
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Pathway 2

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<tr>
<td>High School (Year 11)</td>
<td>Academic English Program (if required)^</td>
<td>UTS Foundation Studies 8 or 12 months</td>
<td>UTS:INSEARCH Diploma 8, 12 or 16 months</td>
<td>UTS 1st or 2nd year Bachelor Degree</td>
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Pathway 3

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<tr>
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<td>Academic English Program (if required)^</td>
<td>UTS Foundation Studies (8 or 12 months)</td>
<td>UTS 1st year Bachelor Degree*</td>
</tr>
</tbody>
</table>

^ Only for students who do not meet the Academic English requirements needed to enter a UTS:INSEARCH academic program.

* The point where you enter into the UTS degree will depend on your chosen major. Not all majors will take you into second year. Please refer to our website for full credit points.

* Only for successful students

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**Based upon successful completion of your diploma with no more than two subject failures.**

^ Source: UTS:INSEARCH 2016 Articulation Tracking Report
MAKE AN ENQUIRY WITH UTS:INSEARCH TODAY
www.insearch.edu.au
[T] 1800 896 994 (within Australia)
[T] +61 2 9218 8700 (outside Australia)
[F] (02) 9281 9875
[E]: courses@insearch.edu.au
Postal Address
PO Box K1085
Haymarket, NSW 1240 Australia
Street Address
Student Centre
Ground Floor,
187 Thomas Street (Blue Building)
Haymarket, NSW 2000 Australia
9am–5pm
Monday – Friday

CRICOS CODES
INSEARCH CRICOS provider code: 00859D
UTS CRICOS provider code: 00099F
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.

FOLLOW UTS:INSEARCH

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uts_insearch
UTS-INSEARCH
UTS:INSEARCH
Admission Requirements

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 140-149).

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 128).

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 four core subjects: Chinese language, English language, Mathematics and Liberal Arts and the best grade in one category A elective subject. Grades for all subjects except for Mathematics are counted as follows: Level 5** and Level 5*+6, Level 5=5, Level 4=4, Level 3=3, Level 2=2, Level 1=1.

Grades for Compulsory Mathematics are counted as follows: Level 5** and Level 5*+6, Level 5=5, Level 4=4, Level 3=3, Level 2=2, Level 1=1.

Grades for Extension Mathematics are counted as follows: Level 5**, Level 5*+6, Level 5=5, Level 4=4, Level 3=3, Level 2=2, Level 1=1.

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 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, B-=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.

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 Higher 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 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. 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 iship 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.

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.

English language proficiency test scores are recognised by UTS provided they were obtained less than two years prior to application at 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.

<table>
<thead>
<tr>
<th>Undergraduate coursework</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 Bachelor of Nursing Bachelor of Arts in International Studies</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 Arts Bachelor of Education Bachelor of Arts Bachelor of Education (Honours)</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>Bachelor of Design (Honours) in Animation Bachelor of Arts (Honours) in Communications Bachelor of Education (Honours) in Primary Education</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>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 Program Level 5 (AE5) and Level 6 (AE6) Program are offered by INSEARCH as a pathway to UTS. The 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.

www.ets.org/toefl

Pearson Test of English (PTE)
http://pearsonpte.com/test-takers
pte-acustomersupportapac@pearson.com
http://pearsonpte.com

Cambridge English: Advanced (CAE)

www.cambridgeenglish.org/help
www.cambridgeesol.org/exams/

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 furnishes 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 fulfil the above requirements, you will need to provide evidence of the results of a UTS recognised English language test. Please refer to the previous education was not conducted in English, section.

Special consideration for students sponsored through aid programs
Special consideration on 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 overall 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.

2018 ACADEMIC CALENDAR
The UTS academic calendar includes three teaching periods. In 2018, Autumn session will run from 19 February to 30 June 2018, Spring session from 23 Jul to 10 November and Summer session from 19 November 2018 to 2 March 2019. This includes two compulsory Orientation weeks for Autumn session and one Orientation week for Spring session.

For courses that follow Calendar B, Autumn session will run from 19 February to 30 June 2018 and Spring session from 23 Jul to 1 December 2018. This includes one compulsory Orientation week in both Autumn and Spring sessions.

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 2018 Summer session.
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 www.international.uts.edu.au

2. ATTACH NECESSARY DOCUMENTS
You must attach: □ a certified† copy of your academic records. Documents not issued in English must be officially translated and submitted together with certified copies in the original language.

□ a certified† copy of your English test score (or an official document stating that your previous education was conducted in English, see page 137)
□ 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 your application is submitted online, you must copy your documents and send the certified† hard copies to UTS international. See the back cover for our postal and street address.

PAPER-BASED:
Copy your documents and submit certified† copies with your application form. See the back cover for our postal and street address.

3. SUBMIT YOUR APPLICATION

ONLINE: Check that you have completed all sections, agree to the terms & conditions and pay your application fee online. Submit your application.

PAPER-BASED:
The application fee can be paid in one of the following ways:
> bank draft or bank cheque attached to your application form or
> by completing the credit card payment section in the application form

There are several ways to submit your application:
> Personally hand it in to UTS International [see back cover for our street address]
> Send your application by post [see the back cover for our postal address]
> Send your application by registered post or courier to our street address

APPLICATION CLOSING DATES:
Autumn session (February/March start)
Applicants based outside Australia: 30 November
Applicants based in Australia: 15 December
Spring session (Jul 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 normally takes about four to six weeks, once we’ve received all of your documents. UTS International will advise you by email of your application outcome.

5. 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 must 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 offer letter.

UTS reserves the right to withdraw an offer of admission or Confirmation of Enrolment (CoE) in cases where an applicant for admission to a course has not provided true and complete information or where UTS is not satisfied that the student meets the Genuine Temporary Entrant and/or Genuine Student requirements set by the Department of Immigration and Border Protection.

† See Certification of Documentation on page 137. * See page 137. # See page 137
SIMPLIFIED STUDENT VISA FRAMEWORK (SSVF)

UTS recruits international students into its degree courses under the SSVF arrangements of the Department of Immigration and Border Protection (DIBP). 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 DIBP website at www.border.gov.au

† CERTIFICATION OF DOCUMENTATION

UTS will accept copies certified by employees of one of the following:

> Australian Education Centre
> 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

* 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

Like UTS International on Facebook: facebook.com/UTSInternationalstudents

Follow UTS International on Instagram @UTSInt

Follow UTS International on Weibo at http://weibo.com/

Airport shuttle service

UTS International offers a free airport shuttle service from the airport to UTS (or a convenient CBD location) for students arriving in the two weeks prior to Orientation. Visit www.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 fun and informative Orientation program. www.orientation.uts.edu.au
Tuition Fees
Tuition fees vary between courses and range from approximately A$13,520 – A$20,175 per teaching session for undergraduate study in 2018. 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 2018 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: www.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 2017 the SSAF was A$147 per session for full-time 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: www.uts.edu.au/current-students/managing-your-course/fees-and-payment

Health Cover
To be granted a student visa by the Australian Government, Overseas Health Cover (OSHC) is required. It is also a visa condition and your responsibility as a student to maintain this health cover throughout your stay in Australia. The university can arrange visa-length cover for you, the cost of which is to be paid at the same time as tuition fees. OSHC covers students for emergency medical attention through the public health system. It does not include physiotherapy, optical or dental care, a pre-existing condition or the cost of admission to a private hospital or non-emergency ambulance service. Extra insurance is available to cover these additional expenses.

The annual cost arranged through Medibank Overseas Student Health Cover (OSHC) (Comprehensive) for single cover without extras in 2017 was A$306 for six months and A$612 for 12 months.

Accommodation and Living Costs
For a guide to accommodation and living costs for living in Sydney, please turn to page 27 of this guide.

Credit Recognition
(formerly known as Recognition of Prior Learning – RPL)
Your prior learning may be considered for credit towards a UTS undergraduate or 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.

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: www.uts.edu.au/future-students/international/essential-information/credit-recognition
2) Certified copy of academic transcript(s)
3) Certified copies of official subject outline(s)

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
> 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 interpreter.
# Course Summary Tables

To calculate your score, see pages 132-133

## BUSINESS

### Bachelor of Business

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Duration</th>
<th>Course Fee (A$/Session)</th>
<th>Course Intake</th>
<th>ATAR</th>
<th>GCE A Level (UK)</th>
<th>STPM (3AL Subjects)</th>
<th>Matricom</th>
<th>Senior High School Diploma</th>
<th>UCAS Code</th>
<th>IB</th>
<th>SAT I</th>
<th>CRICOS Code</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>C10026</td>
<td>Accounting</td>
<td>6</td>
<td>$17,270</td>
<td>Mar/Jul</td>
<td>83.95</td>
<td>70 (GPA 2.8)</td>
<td>17/14 12</td>
<td>3.2</td>
<td>17 86 14 29 1170 006487A</td>
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<tr>
<td>C10026</td>
<td>Economics</td>
<td>6</td>
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<td>83.95</td>
<td>70 (GPA 2.8)</td>
<td>17/14 12</td>
<td>3.2</td>
<td>17 86 14 29 1170 006487A</td>
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<tr>
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<td>Finance</td>
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<td>$17,270</td>
<td>Mar/Jul</td>
<td>83.95</td>
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<td>17/14 12</td>
<td>3.2</td>
<td>17 86 14 29 1170 006487A</td>
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<tr>
<td>C10026</td>
<td>Human Resource Management</td>
<td>6</td>
<td>$17,270</td>
<td>Mar/Jul</td>
<td>83.95</td>
<td>70 (GPA 2.8)</td>
<td>17/14 12</td>
<td>3.2</td>
<td>17 86 14 29 1170 006487A</td>
<td>30</td>
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<tr>
<td>C10026</td>
<td>International Business</td>
<td>6</td>
<td>$17,270</td>
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<td>83.95</td>
<td>70 (GPA 2.8)</td>
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<td>3.2</td>
<td>17 86 14 29 1170 006487A</td>
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<tr>
<td>C10026</td>
<td>Management</td>
<td>6</td>
<td>$17,270</td>
<td>Mar/Jul</td>
<td>83.95</td>
<td>70 (GPA 2.8)</td>
<td>17/14 12</td>
<td>3.2</td>
<td>17 86 14 29 1170 006487A</td>
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### Bachelor of Management

<table>
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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Duration</th>
<th>Course Fee (A$/Session)</th>
<th>Course Intake</th>
<th>ATAR</th>
<th>GCE A Level (UK)</th>
<th>STPM (3AL Subjects)</th>
<th>Matricom</th>
<th>Senior High School Diploma</th>
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<tbody>
<tr>
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<td>Management</td>
<td>6</td>
<td>$16,565</td>
<td>Mar/Jul</td>
<td>75</td>
<td>58 (GPA 2.3)</td>
<td>2.9 15 79 11 25 1090</td>
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### Bachelor of Economics

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<tr>
<th>Course Code</th>
<th>Course Name</th>
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<th>Course Fee (A$/Session)</th>
<th>Course Intake</th>
<th>ATAR</th>
<th>GCE A Level (UK)</th>
<th>STPM (3AL Subjects)</th>
<th>Matricom</th>
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<tr>
<td>C10348</td>
<td>Economics</td>
<td>6</td>
<td>$17,270</td>
<td>Mar/Jul</td>
<td>80</td>
<td>66 (GPA 2.6)</td>
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### Honours Courses

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<thead>
<tr>
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<th>Course Fee (A$/Session)</th>
<th>Course Intake</th>
<th>ATAR</th>
<th>GCE A Level (UK)</th>
<th>STPM (3AL Subjects)</th>
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<th>Senior High School Diploma</th>
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### Combined Degrees - Bachelor of Business

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<th>Course Code</th>
<th>Course Name</th>
<th>Duration</th>
<th>Course Fee (A$/Session)</th>
<th>Course Intake</th>
<th>ATAR</th>
<th>GCE A Level (UK)</th>
<th>STPM (3AL Subjects)</th>
<th>Matricom</th>
<th>Senior High School Diploma</th>
<th>UCAS Code</th>
<th>IB</th>
<th>SAT I</th>
<th>CRICOS Code</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>C10020</td>
<td>Bachelor of Business Bachelor of Arts in International Studies</td>
<td>10</td>
<td>$17,270</td>
<td>Mar</td>
<td>81.5</td>
<td>68 (GPA 2.7)</td>
<td>3.1 17 84 13 28 1150</td>
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<tr>
<td>C09070</td>
<td>Bachelor of Engineering (Honours) Bachelor of Business</td>
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<td>$19,015</td>
<td>Mar</td>
<td>80</td>
<td>66 (GPA 2.6)</td>
<td>3.1 17 83 13 27 1140</td>
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<td>-</td>
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<tr>
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### Combined Degrees – Bachelor of Management and Bachelor of Arts in International Studies

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Note: Fees listed are correct for 2018 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. continued on next page...
Bachelor of Arts in Communication

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Combined Degrees – Bachelor of Communication and Bachelor of Arts in International Studies

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Combined Degrees – Bachelor of Music and Sound Design Bachelor of Arts in International Studies

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* 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.
# Course Summary Tables

To calculate your score, see pages 132-133

## Design, Architecture and Building

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

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^ This published fee is based on 24 credit points per session. During the Diploma year the fee per session is based on 18 credit points.

Note: Fees listed are correct for 2018 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.
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### HEALTH

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* Admission requirements: For applicants applying for the 3yr 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.

To calculate your score, see pages 132-133.
### INFORMATION TECHNOLOGY

#### Bachelor of Science

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#### Combined Degrees

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### LAW

#### Bachelor of Laws

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Note: Fees listed are correct for 2018 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.
## Course Summary Tables

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- C09022 Bachelor of Biotechnology (Honours): 2, $17,930, Mar/Jul, n/a, n/a, n/a, n/a, n/a, n/a, n/a, n/a, 0.043283F
- C09023 Bachelor of Science (Honours) in Biomedical Science: 2, $17,930, Mar/Jul, n/a, n/a, n/a, n/a, n/a, n/a, n/a, n/a, 0.043284E
- C09026 Bachelor of Science (Honours) in Applied Chemistry: 2, $17,930, Mar/Jul, n/a, n/a, n/a, n/a, n/a, n/a, n/a, n/a, 0.040707M
- C09029 Bachelor of Science (Honours) in Environmental Sciences: 2, $17,930, Mar/Jul, n/a, n/a, n/a, n/a, n/a, n/a, n/a, n/a, 0.022683G

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

To calculate your score, see pages 132-133.

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To calculate your score, see pages 132-133
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<th>Course Code</th>
<th>Course Name</th>
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<th>Course Fee (A$/Session)</th>
<th>Course Intake</th>
<th>ATAR</th>
<th>GCE A Level (UK) (Best 4 A Level subjects /3 A Level subjects only)</th>
<th>STPM (3 AL Subjects)</th>
<th>Matric 6</th>
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<th>HKDSE</th>
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<td>$9,888</td>
<td>Mar/Jul</td>
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<td>Minimum Entry Requirements: Successful completion of one full year of study at a recognised university.</td>
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<td>Mar</td>
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<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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<td>$9,888</td>
<td>Mar</td>
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<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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Note: Fees listed are correct for 2018 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.
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 www.international.uts.edu.au or contact us at international@uts.edu.au

**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 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.

**ATAR (Australian Tertiary Admission Rank):** the percentile ranking awarded to students upon successful completion of their Australian matriculation exams. Each undergraduate degree has a minimum ATAR requirement which must be met by students applying to study that course. Equivalent scores are calculated for many international qualifications. See pages pages 132-133 and pages 140-149 for further information or entry requirements specific to your course.

**Bridging course:** a course offered as extra-curricular study to provide students with the assumed knowledge required for certain degrees.

**Campus:** the university grounds, including the buildings.

**Combined degrees:** offer students the opportunity to concurrently study two programs from different academic areas and graduate with two degrees.

**Course:** the name given to the degree of your choice, e.g. Bachelor 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 and 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.

**Australian student visa regulations require international students to complete their course within the standard full-time duration. At UTS, the study load required to complete a course within the standard duration varies between 18 and 32 credit points per session, depending on your area of study and specialisation.**

For more information about student visas, visit the Australian Government Department of Immigration and Border Protection website at www.border.gov.au

**Credit recognition:** [also known as ‘advanced standing’, ‘recognition of prior learning’ and in some cases referred to as ‘exemption’ or ‘credit’]: the process of recognising what an individual student already knows or can do, for credit towards a course. For more information, please go to page 138.

**CRICOS code:** an official code given to a course to confirm that the course is registered to be offered to international students.

**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 first choice electives.

**English language requirements:** To be eligible for admission into an undergraduate course, you must demonstrate proficiency in written and spoken English if your previous education was not conducted in English. Please see pages 133-135 for specific English language requirements for each course.

**Fees:** are charged per credit point, and the cost of each credit point will depend on the course you are studying (see www.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 on a 24 credit point session in 2018, 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 which 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.

**Sessions:** the blocks of time during which classes run on campus. At UTS, an academic year has three sessions. The Autumn session runs from February / March to Jul, the Spring session from Jul to November and the Summer session from November to March. There is no intake for the Summer session.

**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.

**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, which provide a more personal, interactive teaching space for students and tutors to discuss, debate and ask any questions they may have about the course material.

**Undergraduate:** a student who is undertaking a bachelor’s degree.
CONTACT UTS

UTS International offers advice and support to international students during the application process and throughout their studies at UTS. Contact us at:

www.international.uts.edu.au

General enquiries:
international@uts.edu.au
Tel: +61 3 9627 4816 (outside Australia)
1800 774 816 (freecall within Australia)

Application enquiries:
international.applications@uts.edu.au
Tel: +61 2 9514 1531
Fax: +61 2 9514 1530

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PO Box 123
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Australia

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University of Technology Sydney
Level 3A, UTS Tower Building
15 Broadway, Ultimo

www.international.uts.edu.au

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 2017. 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.

UTS CRICOS Provider Code: 00099F
UTS:INSEARCH CRICOS Provider Code: 00859D

Australia

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