

# A quick guide to QUT

for students in Years 7–10

# University is for everyone

It doesn't matter if you don't know much about uni, or even if you'll be the first one in your family to go to uni. We have students from many backgrounds—some who have had to relocate to attend uni, some needing financial assistance, as well as a diverse range of cultures. They feel right at home at QUT, and you will too.

There is plenty of help available including entry programs, financial assistance and support—from personal counselling, an accommodation service and career advice through to IT support, academic workshops, and disability support. We've got you covered.

## Your future is in your hands

If there's a particular career you are dreaming of, make it yours.

At uni, you'll usually start with a bachelor degree, such as a Bachelor of Science. But there's no need to limit yourself. In many courses you can also take some units from other areas that interest you. So if you are studying science, you might also add some language units (subjects) within the same degree.

You can also consider a double degree, which combines two bachelor degrees, giving you even more skills and options in your study and career.

## Time is on your side

Going to uni might seem like a big time commitment now, but given that you'll probably have 17 jobs and five different careers over your lifetime, it's a worthwhile investment. A bachelor degree normally takes 3–4 years to complete and a double degree takes 4–5.5 years. And many students say it's the best time of their lives.

## Get to class! Or not.

Uni is different to school. You'll have different options for when and how you study. Attendance isn't usually compulsory but you'll need to balance your time if you want to do well.

Classes can be on campus or online. For full-time study, you'll generally enrol in three or four units each semester, and spend around 10–12 hours per unit each week in classes or completing online activities, extra study and assessment. You might attend lectures (large classes with 100+ students) or tutorials, workshops, lab sessions or practicals (smaller, interactive classes of 25 or so students). Or you might study from the

comfort of home with online lectures, discussions, workshops or simulations.

You can expand your horizons with options to work on a project or undertake experience with one of our industry partners, or head overseas for study, a tour or internship.

## The university for the real world. Wait, what?

At QUT, we're all about preparing you for life after uni. And that means getting you ready for the careers of today and careers that have yet to be created. You'll learn from teachers who are industry leaders, gain hands-on experience, connect with employers and experts in your field, and have access to career planning resources and support to grow your own startup business.

QUT has two inner-city campuses so you'll be right in the middle of the action. Where you study will depend on the course you choose. Gardens Point is right in the city centre and Kelvin Grove is three kilometres from the city—easy to get to on public transport and handy to student accommodation.

## Take us for a test drive

To get a taste of what university is like and test drive some of your study areas, consider the START QUT program. It's an opportunity to study one or two QUT units during Year 11 or Year 12. You'll go to on-campus classes, complete assessments alongside first-year students, and if you pass your START QUT subject, you'll get a selection rank adjustment that can help you get into your chosen uni course. Find out more at [qut.edu.au/startqut](http://qut.edu.au/startqut)

## Getting into uni

Each university has different entry criteria so you'll need to do some research. For QUT, you'll need either an ATAR or a completed International Baccalaureate (IB) Diploma to gain entry directly after school.

For most courses at QUT, places are allocated based on your ATAR or selection rank. The course information on the following pages shows the selection rank threshold from the 15 January 2020 offer round. You can use this as a guide to the ATAR you might need, but remember that thresholds can change from year to year depending on the popularity of the course.

Some courses have additional entry requirements such as an audition, portfolio or written statement.

If you don't have an ATAR or IB Diploma, there are other admission pathways you can take after school to help you get into QUT.

## Subjects for entry to QUT

QUT has an assumed knowledge scheme for most of our courses. This means we assume you have studied certain subjects at school but we don't use them as entry criteria. It's important to study the assumed knowledge subjects at school if you can or you may struggle with your uni studies.

Some courses have prerequisite subjects that you must satisfy to gain entry.

If your study plans change after you select your subjects for senior, it's reassuring to know that you may be able to pick up the knowledge through a bridging course.

## Crunch time: how to choose subjects for Years 11 and 12

Choosing subjects is an important decision, but don't panic. Your subject choices are just a first step, and you won't be locked into one career path for life. Here are our best tips.

- Try out some **different subjects** in Years 8, 9 and 10 so you can see what you like.
- Find out **what subjects are available** at your school in Years 11 and 12 and what they are all about. Talk to your teachers and parents/guardians, or read the subject selection information from school.
- **Choose subjects you like** so you'll be motivated to put in the time and effort to do well. Subjects you enjoy and are good at are more likely to connect to a career you'll love. And you will find your senior years at school more enjoyable if you are interested in what you are studying.
- You don't need to know exactly what career you want, but it's a good idea to explore a few. The **Match My Skills** quiz can help. Once you have some jobs in mind, check what courses you need to study. If there are assumed knowledge or prerequisite subjects, include these in your subject selection.

- To find out more about university and careers before you make subject choices, check out open days or career expos, either in person or online. Get your questions answered before you need to select your subjects.
- If you are planning to go to uni, make sure you **choose the right combination** of general, applied or vocational education and training (VET) subjects to receive an ATAR.
- Certain subjects can give you a **boost for entry** to uni courses with a selection rank adjustment. QUT's Year 12 subject scheme provides a selection rank adjustment for Specialist Mathematics, Physics, Languages other than English (LOTE), Engineering, Aerospace Systems, or studying a university subject like START QUT while at school.
- Worried you'll make a mistake? It's OK. **Talk to your school right away** to see if you can make a change. If not, and you need a particular subject for uni entry, look into options such as bridging courses to help you pick up the knowledge you need.
- If you **need more advice**, talk to your guidance officer, careers adviser, teachers or parents/guardians.

### What's different about uni?

- Study what YOU want and meet friends with the same interests.
- On-campus and online study options.
- Organise your own timetable for study, work and fun.
- 150+ clubs to join, as well as festivals, sport and campus events.
- Access on-campus shops, gyms, sport facilities, cafés, food courts, swimming pools, and esports arena.
- Develop leadership and professional skills through workshops, volunteering and campus projects.
- On-campus and online study options.



## A day in the life of Cain Varoy

Information technology and law student

**7am** Wake up, get ready for uni, have breakfast and a coffee!

**8am** Walk to the ferry terminal 300 metres from the apartment I share with another QUT student in Kangaroo Point. A short ferry ride along the river straight to Gardens Point campus is a great way to start the day.

**9am** A two-hour computer science tutorial where we complete programming exercises or continue our latest project with the assistance of a tutor and other students. It's a very short and intensive class but I learn a lot in a small amount of time.

**11am** Another two-hour tutorial but this one is for law. As a double degree student, getting to switch between two different disciplines is always interesting and forces me to be flexible and curious. A typical law tutorial usually involves lots of class discussion about practical examples of the theory covered in lectures.

**1pm** I'm done with classes! I've scheduled all my classes in the mornings, so my afternoons are free. I usually catch up for coffee or lunch with friends either on campus or somewhere in the city, which is all within walking distance.

**2pm** I will typically fit in some study in the library. Working with friends is a great way to motivate yourself to do the work and get help at the same time.

**3pm** I work most afternoons, usually tutoring other students. As a regional student who moved from Townsville, it is definitely necessary (but also easy) for me to have a part-time job while studying. I can comfortably work 15 or so hours a week to support myself.

**6pm** I return home from work and relax for a while before preparing dinner.

**8pm** I love to do all my readings at night, so I find somewhere comfortable and delve deeper into some contract law. I might also watch a lecture recording. Having the freedom to watch lectures online allows me to go back over content I missed and watch at my own pace, though some prefer to engage in person.

**9pm** An hour and several cups of tea later, I'm ready to unwind with some Netflix before getting ready for bed.

## Need help deciding?

We've taken the stress out of finding a course that suits you. Go online to Match My Skills. Answer some questions about your strengths, interests and what you are keen to learn. We'll deliver a personalised list of careers and courses that are perfect for you, plus a few ideas on future proofing your career.



Take the quiz and find the course for you.



# Business

If you like these subjects you might like studying business: accounting, business, economics, English, film, television and new media, geography, languages, maths

**Careers:** accountant, advertising strategist, business analyst, copywriter, digital strategist, economist, entrepreneur, financial analyst, financial planner, human resources officer, international management consultant, IT executive, investment manager, marketing consultant, media adviser, product manager, publicist, publisher, recruitment consultant, stockbroker, supply chain consultant

**Accountancy** A great platform for many careers in business including business analyst, certified practising accountant, chartered accountant, chief financial officer, forensic accountant or financial project manager.

**Advertising** Study advertising account management, planning, media, creative and digital advertising for roles such as advertising account executive, copywriter, digital strategist, media buyer or planner.

**Economics** Learn how to manage issues such as unemployment, interest rates, inflation, competition, business strategy, sustainable use of resources and the impact of government decisions. Work in government, banking and investment, or other organisations in roles such as business analyst, consultant or economist.

**Finance** Focus on the borrowing, lending and investing of money by individuals, financial institutions, businesses and governments. Careers include financial analyst, commercial banker, investment manager and financial markets dealer.

**Financial planning** Help people and businesses to manage their financial affairs and meet their financial goals. Careers include financial planner, financial adviser, investment manager or superannuation adviser.

**Human resource management** Study recruitment, selection, training and development, performance and compensation management for roles such as human resource partner or manager, recruitment consultant, workforce planner or training and development adviser.

**International business** Learn about global regulations, management of cultural differences, buying preferences, global transport options and ethical behaviours. You may work in Australia or overseas in the fields of customs and freight forwarding, international banking and finance, supply chain management or international business.

**Management** Develop skills in entrepreneurial thinking and strategic decision making, as well as managing teams, risk, projects and operations in changing environments. Establish your own entrepreneurial startup venture or work as a business development manager, business owner/manager or management consultant.

**Marketing** Learn about the marketing mix, consumer behaviour, emarketing and using market research, to work in roles such as business development manager, market researcher, marketing communications officer or product manager.

**Property economics** Work as a property valuer, investment analyst, development manager, or in real estate.

**Public relations** Learn skills to publicise a new movie, launch a social media campaign, improve relationships with customers or develop a government safety campaign. You may work as a community relations officer, publicist, media adviser, press secretary or public relations consultant/manager.

**Double degrees Business** with animation, architecture, biomedical science, creative industries, creative writing, digital media, drama, engineering, entertainment industries, fashion, film, screen and new media, games and interactive environments, human services, industrial design, information technology, interaction design, interior architecture, journalism, justice, landscape architecture, law, mathematics, professional communication, property economics, psychology, visual communication, visual arts, visual communication **Property economics** with architecture, business, interior architecture, law

## Want an international flavour?

The Bachelor of Business–International combines the three-year Bachelor of Business with one year of international studies. Choose your main area of study from those listed and you will also spend a year overseas with one of our partner institutions.

Course	Selection rank	Campus	Duration (years)	Assumed knowledge
Accountancy	79.00	GP	3	English, Maths
Advertising	79.00	GP	3	English
Economics	79.00	GP	3	English, Maths
Finance	79.00	GP	3	English, Maths
Financial planning	79.00	GP	3	English, Maths
Human resource management	79.00	GP	3	English
International business	79.00	GP	3	English
Management	79.00	GP	3	English
Marketing	79.00	GP	3	English, Maths
Property economics	70.00	GP	3	English
Public relations	79.00	GP	3	English
Business with international study year	87.00	GP	4	English, and for accountancy, finance, economics, financial planning and marketing, Maths
Dean's honours program	97.00	GP	4	English, and for accountancy, finance, economics, financial planning and marketing, Maths

For all assumed knowledge or prerequisite subjects:

- a grade of C or higher in Units 3 & 4 is specified
- English = one of English, Literature, English and Literature Extension, English as an Additional Language
- Maths = one of General Maths, Math Methods, Specialist Maths
- Science = one of Agricultural Science, Biology, Chemistry, Earth and Environmental Science, Marine Science, Physics, Psychology

The selection rank is a good indication of the equivalent ATAR. The selection rank shown is the lowest to receive an offer in the 15 January 2020 offer round inclusive of adjustments.

◆ This course has additional entry requirements.

Campus: GP (Gardens Point), KG (Kelvin Grove), EX (external)

For more information see the online course information at [qut.edu.au/study](http://qut.edu.au/study)

# Education

**If you like these subjects you might like studying education:** dance, drama, English, film, television and new media, geography, health, history, maths, music, physical education, psychology, sciences, visual art

**Careers:** childcare leader, corporate training and development, early childhood teacher, education outreach, entertainment industry, government policy officer, kindergarten teacher, learning designer, prep teacher, primary teacher, secondary teacher

**Early childhood** Work as a teacher in early childhood education and care, kindergarten and Prep to Year 3.

**Primary** Teach in schools across Prep to Year 6.

**Secondary** Teach Years 7 to 12 in secondary schools and be a qualified specialist in your two chosen teaching areas. Teaching areas include biology, chemistry, earth and environmental science, English, geography, health and physical education, history, mathematics and physics.

**Double degrees **Secondary education**** with business, creative writing, dance, drama, film, screen and new media, information technology, music, visual arts.

Double degree options with mathematics and science may also be available from 2021, subject to final university approval.

Course	Selection rank	Campus	Duration (years)	Prerequisites
Early childhood education	70.00♦	KG/EX	4	English, Maths, and at least one Science
Primary education	70.00♦	KG/EX	4	English, Maths, and at least one Science
Secondary education	70.00♦	KG	4	English, Maths



## A career I love

I always knew I wanted to be a teacher, and now that I'm a high school teacher I love that every day is different and that every student will teach you something new. I'm from the Wakka Wakka and the Kalkadoon people. Being the First Nation's people, we have so much knowledge to share. QUT helped prepare me for my career as a teacher through real-world practical experiences and learning.

**Chenoa Masters**  
Education graduate

# Creative industries

If you like these subjects you might like studying creative industries: business, dance, drama, English, design, film, television and new media, geography, graphics, information technology, music, physics, technology studies, visual art

**Careers:** actor, animator, architect, cinematographer, creative advertising executive, dancer, editor, entertainment producer, fashion designer, interior designer, multimedia designer, stage manager, teacher, visual artist

**Creative industries** Keep your options open or focus on more than one creative area with the Bachelor of Creative Industries. You can choose multiple study areas to suit your interests and career aspirations.

**Double degrees** **Creative industries** with business, human services, information technology, law

## Communication

### Advertising and public relations

Combine studies in these two complementary areas for careers such as public relations specialist, media planner, advertising copywriter or corporate communications consultant.

**Digital media** Combine communication studies with digital innovation. Careers exist in marketing and communications, public relations, media, corporate communications, advertising, or digital strategy and content.

**Entertainment industries** Work as a producer, promoter or agent of entertainment such as radio, large-scale performances, theme parks, sport, film and television, and cultural and gaming production.

**Journalism** In this course you will write, present and produce news for online, print, radio and television—preparing you for a journalism career, or roles in public relations or media.

**Professional communication** Develop skills in high-level professional writing, strategic speech writing and persuasive writing to work in corporate, government or freelance roles such as professional writer or editor, reviewer or publisher.

**Double degrees** **Digital media** with business, information technology, justice, law **Entertainment industries** with business, law **Journalism** with business, justice, law, science **Professional communication** with business, justice, nutrition science, public health, science

## Creative practice

**Acting** Train to work as an actor in film, television and on stage both in Australia and internationally.

**Animation** Develop skills for a career as an animator, visual effects artist or game designer for an animation or film studio, computer game company, or advertising or design agency.

**Creative writing** Work on novels, short stories, creative non-fiction, youth writing, media writing and poetry, scriptwriting and editing.

**Dance** Work as a dance teacher, choreographer, dance journalist, festival director, or in other dance-related careers.

**Dance performance** Combine intensive training in dance with academic studies to pursue a career as a dancer.

**Drama** Learn how to direct, produce, teach and perform drama for roles such as theatre and festival organiser, playwright, director, designer or performer.

**Film, screen and new media** Develop skills in producing, writing, editing, sound, cinematography and directing for careers in the film, television and digital media areas.

**Music** Focus on producing or performing music in state-of-the-art live and recording studio environments. Work as a performer, producer, composer or developer of music software and games.

Course	Selection rank	Campus	Duration (years)	Assumed knowledge
Creative industries	70.00	KG	3	English
<b>Communication</b>				
Advertising and public relations	79.00	KG	3	English
Digital media	70.00	KG	3	English
Entertainment industries	70.00	KG	3	English
Journalism	79.00	KG	3	English
Professional communication	70.00	KG	3	English
<b>Creative practice (fine arts)</b>				
Acting	◆	KG	3	English
Animation	77.00	KG	3	English
Creative writing	70.00	KG	3	English
Dance	◆	KG	3	English
Dance performance	◆	KG	3	English
Drama	70.00	KG	3	English
Film, screen and new media	72.00	KG	3	English
Music	◆	KG	3	English
Technical production	79.00	KG	3	English
Visual arts	◆	KG	3	English
<b>Design</b>				
Design with international study year	89.00	GP/KG	4	English
Architecture	82.00	GP	3	English
Fashion	70.00◆	GP/KG	3	English
Industrial design	70.00	GP	3	English
Interaction design	70.00	GP/KG	3	English
Interior architecture	70.00	GP	3	English
Landscape architecture	70.00	GP	3	English
Visual communication	70.00	GP/KG	3	English

For all assumed knowledge or prerequisite subjects:

- a grade of C or higher in Units 3 & 4 is specified
- English = one of English, Literature, English and Literature Extension, English as an Additional Language

The selection rank is a good indication of the equivalent ATAR. The selection rank shown is the lowest to receive an offer in the 15 January 2020 offer round inclusive of adjustments.

◆ This course has additional entry requirements.

Campus: GP (Gardens Point), KG (Kelvin Grove)

For more information see the online course information at [qut.edu.au/study](http://qut.edu.au/study)

**Technical production** Work as a stage manager, lighting and sound designer, technical director, or in the areas of props, costumes and stage mechanics.

**Visual arts** Practise art in the areas of video, photography, installation, performance, printmaking, drawing, sculpture and painting. Graduates work as successful artists, and as curators or arts managers in galleries and museums.

**Double degrees** **Animation** with business **Creative writing** with business, law, secondary education **Dance** with secondary education **Drama** with business, secondary education **Film, screen and new media** with business, law, secondary education **Music** with secondary education **Visual arts** with business, secondary education

## Design

**Architecture** Plan and design buildings with a focus on creating sustainable, healthier and more useable environments.

**Fashion** Be prepared to work in Australia and overseas as an independent designer or with larger fashion houses.

**Industrial design** Draw on technology, design and user knowledge to design hot new consumer devices, more efficient work products, medical equipment and more.

**Interaction design** Design for technology such as web and mobile apps, wearable fashion or health technology, user experience, smart home and virtual reality environments, robotics and more.

**Interior architecture** Consider the purpose, efficiency, comfort, safety and aesthetics of interior spaces for work designing for large-scale projects or in retail, gallery or museum settings.

**Landscape architecture** Design and plan projects including parks, botanic gardens, sporting complexes, and educational, commercial or residential sites.

**Visual communication** Gain skills for careers in traditional and new interactive media in graphic design,

digital media, interactive design, art direction, branding, motion graphics design, advertising, illustration, service and experience design, packaging, and exhibition design.

**Double degrees** **Architecture** with business, construction management, engineering, property economics **Fashion** with business **Industrial design** with business, engineering, law **Interaction design** with business, engineering, information technology **Interior architecture** with business, construction management, property economics **Landscape architecture** with business, engineering, urban and regional planning, science **Visual communication** with business

## Want an international flavour?

The Bachelor of Design—International combines the three-year design degree in one of the study areas listed with one year of international studies.

## Following a passion

I have danced both in school and outside of school my entire life. I absolutely loved my dance teachers in school and want to inspire my students and make them feel safe the same way my teachers did for me. Studying at QUT and being able to use the world-class dance studios in the Creative Industries Precinct at the Kelvin Grove campus is amazing. Students have access to these rooms 24/7 so we can rehearse any time we like.

**Lucy Turner**  
Dance and education student



# Health

**If you like these subjects you might like studying health:** biology, chemistry, food and nutrition, health, maths, physical education, physics, psychology

**Careers:** biomedical scientist, counsellor, dietitian, exercise physiologist, exercise scientist, health information manager, health promotion officer, human services practitioner, medical scientist, nurse, nutritionist, optometrist, paramedic, pharmacist, policy development officer, podiatrist, psychologist, radiation therapist, radiographer, social worker, sports scientist, youth worker

## Behavioural science (psychology)

Psychologists use knowledge of human behaviour to treat individuals with mental disorders, relationship problems, learning difficulties, addiction and eating disorders. This course is the first step towards becoming a registered psychologist and is an excellent foundation for careers in other areas such as human resources, market research and organisational development.

**Biomedical science** Study normal body function, investigate disease and injury, and develop new strategies for the prevention and treatment of diseases. You can work in universities, research institutes, hospitals and biotechnology companies.

**Clinical exercise physiology** Work in hospitals and clinics developing rehabilitation programs for patients with injuries or chronic diseases such as diabetes and cardiovascular disease.

**Health information management** Collect, maintain and manage data that can improve health services for individuals and communities. The employment opportunities are excellent and you will graduate with knowledge in business, information technology and health.

**Human services** Provide support to individuals, families and communities who are experiencing social or economic adversity. You may work as a case manager, counsellor, policy development officer, child protection officer or youth worker, or in aid, not-for-profit or human rights organisations.

**Medical imaging** Use techniques such as X-ray, computed tomography (CT), and magnetic resonance imaging (MRI) to produce high-quality images that can be used by medical specialists to diagnose, manage and treat an injury or disease.

**Medical laboratory science** Perform tests on human and veterinary specimens including blood, bodily fluids, stool, urine and tissue biopsies to investigate disease. You can work

in pathology in hospitals or labs, or undertake further studies for a career in research.

**Nursing** With on-campus facilities that replicate hospital surroundings, equipment and scenarios, you will develop the confidence and skills to work in a range of nursing environments. You will also complete more than 800 hours of placement during the course and learn from some of Australia's most respected nurse academics and researchers.

**Nutrition and dietetics** Develop an advanced knowledge of nutrition and advise on appropriate diet, food preparation and menu planning to treat nutrition-related disease. You may provide individual dietary counselling, medical nutrition therapy or group dietary therapy.

**Nutrition science** Focus on issues that affect the whole population and apply expert knowledge to a range of nutrition services. Be employed in a number of industries to analyse food supply, government policy and eating behaviours, and develop new ways to promote healthy lifestyle choices and prevent diet-related disease within communities.

**Paramedic science** Provide rapid, emergency medical response and specialised transportation to the community. In this course you will complete extensive placements with the Queensland Ambulance Service, as well as scenario-based training alongside other emergency service providers to help you develop leadership skills and learn how to manage critical situations under pressure.

Course	Selection rank	Campus	Duration (years)	Assumed knowledge
Behavioural science (psychology)	77.00	KG	3	English
Biomedical science	75.00	GP	3	English, Math Methods, Chemistry, Biology
Clinical exercise physiology	82.00	KG	4	English, Math Methods, and at least one of: Chemistry, Physics, Biology
Health information management	72.00	KG	3	English
Human services	70.00	KG	3	English
Medical imaging	99.00*	GP	4	English, Math Methods, Physics
Medical laboratory science	70.00	GP	4	English, Math Methods, Chemistry
Nursing	79.00♦	KG	3	English
Nutrition and dietetics	94.00	KG	4	English, Math Methods, Chemistry
Nutrition science	70.00	KG	3	English, Math Methods, Chemistry
Paramedic science	92.00	KG	3	English
Pharmacy	77.00	GP	4	English, Math Methods, Chemistry
Podiatry	82.00	KG	4	English, Math Methods, Chemistry
Public health	72.00	KG	3	English
Radiation therapy	96.00	GP	4	English, Math Methods, Physics
Social work	72.00	KG	4	English
Sport and exercise science	70.00	KG	3	English, Math Methods, and at least one of: Chemistry, Physics, Biology
Vision science (optometry)	98.00*	KG	5	English, Chemistry, Math Methods, Physics

For all assumed knowledge or prerequisite subjects:

- a grade of C or higher in Units 3 & 4 is specified
- English = one of English, Literature, English and Literature Extension, English as an Additional Language

Campus: GP (Gardens Point), KG (Kelvin Grove)

The selection rank is a good indication of the equivalent ATAR. The selection rank shown is the lowest to receive an offer in the 15 January 2020 offer round inclusive of adjustments.

\* Other ranks were used to select applicants at the threshold.

♦ This course has additional entry requirements.

For more information see the online course information at [qut.edu.au/study](http://qut.edu.au/study)

**Pharmacy** Study how drugs interact with the human body and how they can be used safely for therapeutic purposes. Pharmacists work in community pharmacies, hospitals, regulatory roles or research.

**Podiatry** Analyse walking and running motion, correct foot and lower limb problems, design orthotic devices, or assist with rehabilitation of sports injuries. Students gain practical experience treating patients in the QUT Health Clinics.

**Public health** Improve the health of whole populations through health education and promotion, policy development, risk management or disease prevention. Graduates work in health departments, community organisations and international health agencies.

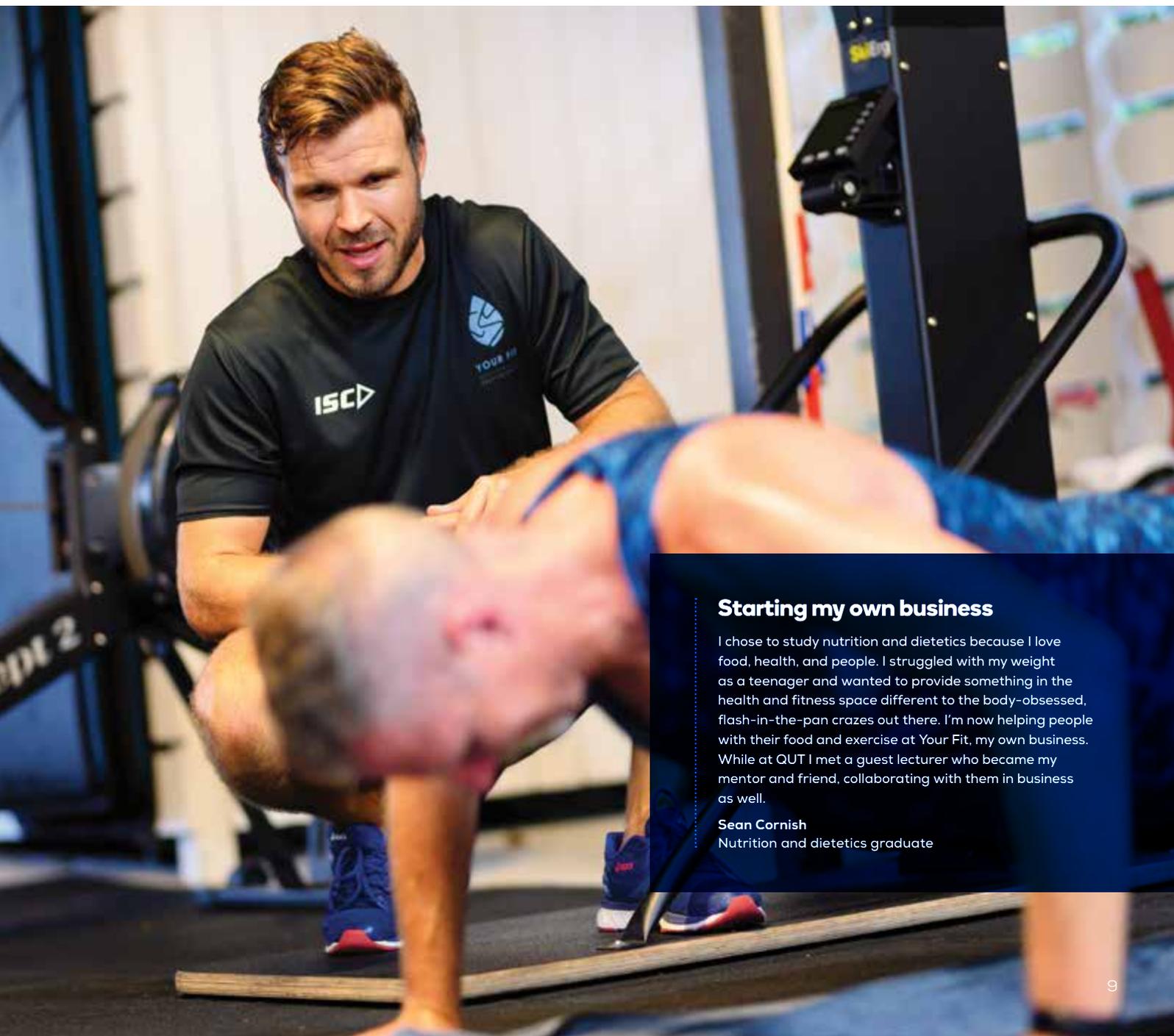
**Radiation therapy** Plan and deliver radiation treatment for cancer patients. QUT is the only university in Queensland to offer a radiation therapy degree.

**Social work** Support individuals, families and communities experiencing hardship and anguish in hospitals, mental health settings or other clinical environments. You may also work in leadership and management roles in child protection, youth services, corrective services, justice and legal services, family support and counselling, and Indigenous services.

**Sport and exercise science** Design and implement exercise and physical activity programs to improve health and fitness, analyse performance or prevent injury. Graduates work with athletes and sporting teams, and in community roles.

**Vision science (optometry)** Provide preventative care and treatments for eye disease and vision problems. You will examine, diagnose and treat real patients at QUT Optometry Clinic using state-of-the-art ophthalmic instruments. This course includes a three-year Bachelor of Vision Science followed by a two-year Master of Optometry.

**Double degrees** **Biomedical science** with business, law, mathematics  
**Human services** with business, creative industries, justice, public health  
**Nursing** with paramedic science, psychology, public health  
**Nutrition science** with professional communication  
**Paramedic science** with nursing  
**Psychology** with business, justice, law, nursing, social work  
**Public health** with human services, nursing, professional communication  
**Social work** with psychology



### Starting my own business

I chose to study nutrition and dietetics because I love food, health, and people. I struggled with my weight as a teenager and wanted to provide something in the health and fitness space different to the body-obsessed, flash-in-the-pan crazes out there. I'm now helping people with their food and exercise at Your Fit, my own business. While at QUT I met a guest lecturer who became my mentor and friend, collaborating with them in business as well.

**Sean Cornish**  
Nutrition and dietetics graduate

# Science and engineering

**If you like these subjects you might like studying science and engineering:** aerospace systems, biology, business, chemistry, digital solutions, economics, engineering, geography, graphics, information technology, maths, physics

**Careers:** aerospace engineer, biochemist, conservation officer, data analyst, environmental scientist, geologist, industrial chemist, physicist, roboticist, science communicator, security analyst, statistician

## Engineering

**Chemical process** Design, develop and optimise industrial processes to make products such as oil, gas and minerals, plastics, food and beverages, paper and chemicals on which modern society depends.

**Civil** Plan, design, construct, operate and maintain structures and facilities—ranging from skyscrapers, roads and factories to railways and harbours.

**Computer and software systems** Create and modify software such as operating systems, applications software and communications software, as well as software for mobile phones, GPS, satellites and aircraft flight systems.

**Electrical** Design, research, develop, plan, manufacture and manage electrical systems and devices—ranging from heavy power generators to tiny computer chips.

**Electrical and aerospace** Design, develop and maintain the electronic systems of military and civilian aeroplanes, helicopters, spacecraft, satellites and uninhabited aerial vehicles (UAVs).

**Mechanical** Design, develop and maintain systems and machinery. You may be involved in commissioning a factory, selecting equipment, working in a design office, or managing people and systems in a manufacturing plant.

**Mechatronics** Design and maintain machinery with electronic and computer control systems, such as aircraft and power generators, for use in the fields of automated systems and robotics.

**Medical** Design, manufacture and maintain medical equipment, such as CT scanners or kidney dialysis machines, to improve healthcare and medical services.

**Double degrees** **Engineering** with architecture, business, industrial design, information technology, interaction design, landscape architecture, mathematics, science

## Information technology

**Computer science** Use hardware and software to design and build systems to solve complex problems. You will learn programming and software design, networking technologies and the architecture of different hardware systems.

**Games and interactive environments** Learn about the games and interactive media industries, from idea generation through to final product. Develop skills in visualisation, interaction and communication, graphics programming and game artificial intelligence.

**Information systems** Work with people to identify their needs and design solutions to meet them. You may design, develop and implement large database applications, or be involved with the purchase and implementation of packaged software.

**Double degrees** **Games and interactive environments** with business, mathematics, science **Information technology** with business, creative industries, digital media, engineering, interaction design, law, mathematics, science, secondary education

Course	Selection rank	Campus	Duration (years)	Assumed knowledge
<b>Engineering</b>				
Chemical process	75.00	GP	4	English, Math Methods
Civil	75.00	GP	4	English, Math Methods
Computer and software systems	75.00	GP	4	English, Math Methods
Electrical	75.00	GP	4	English, Math Methods
Electrical and aerospace	75.00	GP	4	English, Math Methods
Mechanical	75.00	GP	4	English, Math Methods
Mechatronics	75.00	GP	4	English, Math Methods
Medical	75.00	GP	4	English, Math Methods
<b>Information technology</b>				
Computer science	70.00	GP	3	English, Maths
Games and interactive environments	70.00	GP	3	English, Maths
Information systems	70.00	GP	3	English, Maths
<b>Mathematics</b>				
Applied and computational mathematics	89.00	GP	3	English, Math Methods
Operations research	89.00	GP	3	English, Math Methods
Statistics	89.00	GP	3	English, Math Methods
<b>Science</b>				
Biological sciences	70.00	GP	3	English, Math Methods
Chemistry	70.00	GP	3	English, Math Methods
Earth science	70.00	GP	3	English, Math Methods
Environmental science	70.00	GP	3	English, Math Methods
Physics	70.00	GP	3	English, Math Methods
<b>Urban development</b>				
Construction management	70.00	GP	4	English, Maths
Quantity surveying and cost engineering	70.00	GP	4	English, Maths
Urban and regional planning	70.00	GP	4	English

For all assumed knowledge or prerequisite subjects:

- a grade of C or higher in Units 3 & 4 is specified
- English = one of English, Literature, English and Literature Extension, English as an Additional Language
- Maths = one of General Maths, Math Methods, Specialist Maths

The selection rank is a good indication of the equivalent ATAR. The selection rank shown is the lowest to receive an offer in the 15 January 2020 offer round inclusive of adjustments.

\* This course will be offered from 2021 subject to final university approval.

Campus: GP (Gardens Point), KG (Kelvin Grove), EX (external)

For more information see the online course information at [qut.edu.au/study](http://qut.edu.au/study)

## Mathematics

### Applied and computational mathematics

Use mathematical modelling to distil complex real-world problems into abstract mathematical frameworks, and apply them to real-world scenarios in the fields of physical and chemical sciences, biology, engineering and social science.

**Operations research** Use mathematical modelling and algorithms to design, operate and predict behaviour of complex systems like machinery, materials and money in industry, business, finance, education, government and defence.

**Statistics** Apply mathematical and statistical theory, and use modern computing, to provide insights to data and reasoning around uncertainty such as the development of new financial products, optimising transport schedules in today's busy world or using data mining to help understand pandemic disease transmission.

### Double degrees Mathematics

with biomedical science, business, engineering, games and interactive environments, information technology, secondary education\*, science

## Science

**Biological sciences** Work on problems to do with life and living things. How will we feed the world's growing population in 2025? How can we save rare species from extinction? This course prepares

you with studies in animal physiology, genetics, animal and plant sciences, and microbiology.

**Chemistry** Careers exist in most areas of science, technology, environment and industry including medicinal drugs, nanotechnology, water and air quality, and energy production. You may be employed as a lab supervisor, industrial, environmental or food chemist, or in police and forensics labs.

**Earth science** Study geology (the rocky parts of the Earth's crust), physical geography (the Earth's surface), oceanography and hydrology (the marine and freshwater parts of the Earth). Earth scientists are in high demand in oil, coal, gas and geothermal industries, mining and exploration, and environmental consulting organisations.

**Environmental science** Tackle problems such as local water quality and ecosystem impacts, soil erosion and adaptation to global climate change. Consult on the environmental impact of mining, tourism and urban development, and the rehabilitation and reforestation of degraded sites.

**Physics** Learn about the laws, processes and properties of matter, energy, space and time. Specialise in mechanics, electromagnetism, laser and optics, medical physics, computational physics, nuclear and radiation physics, astronomy and astrophysics, thermodynamics, quantum mechanics and relativity.

## The Bachelor of Science Advanced

**(Honours)** is designed for high-achieving students with a passion for scientific enquiry. You'll be immersed in real-world research from your first year with leading QUT researchers and projects.

**Double degrees Science** with business, engineering, games and interactive environments, information technology, journalism, landscape architecture, law, mathematics, professional communication, secondary education\* **Environmental science** with urban and regional planning

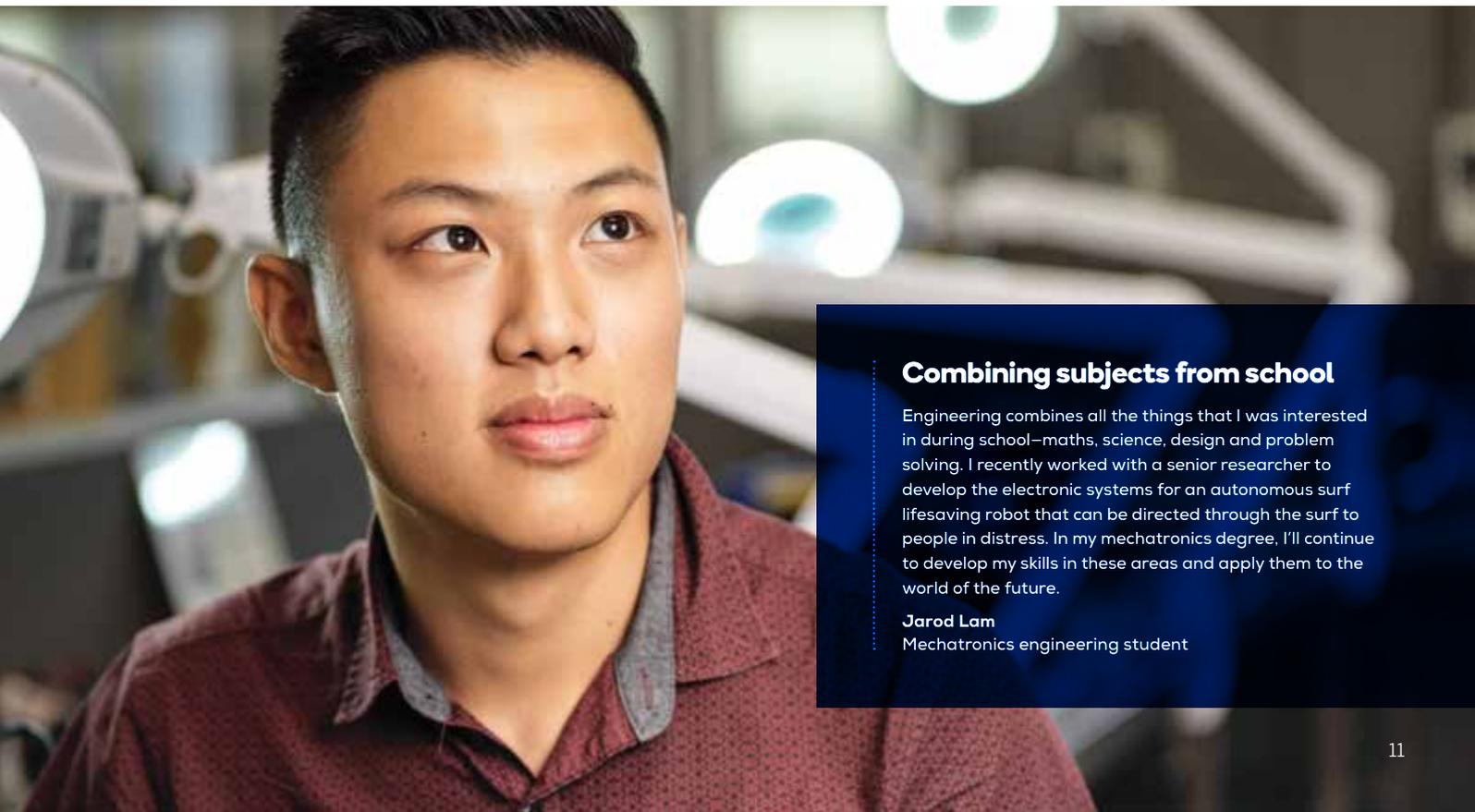
## Urban development

**Construction management** Coordinate large building projects such as apartments, hotels, factories, office blocks, schools and hospitals.

**Quantity surveying and cost engineering** Provide advice to the construction industry on the financial and legal aspects of new constructions and the operation of existing buildings.

**Urban and regional planning** Plan large-scale projects such as new cities, suburbs, ports, recreational and industrial areas and transport routes using land and resources to meet the needs of communities.

**Double degrees Construction management** with architecture, interior architecture **Urban and regional planning** with environmental science, landscape architecture



### Combining subjects from school

Engineering combines all the things that I was interested in during school—maths, science, design and problem solving. I recently worked with a senior researcher to develop the electronic systems for an autonomous surf lifesaving robot that can be directed through the surf to people in distress. In my mechatronics degree, I'll continue to develop my skills in these areas and apply them to the world of the future.

**Jarod Lam**  
Mechatronics engineering student

# Law and justice

**If you like these subjects you might like studying law and justice:** accounting, business, economics, English, film, television and new media, history, languages, legal studies

**Careers:** barrister, community corrections officer, corrective services officer, customs officer, government lawyer, government policy officer, information security specialist, in-house lawyer, intelligence officer, police officer, solicitor in a law firm, youth justice worker

**Justice** Learn about crime, social justice, human rights and equality to understand the way in which society defines, polices and punishes criminal behaviours. Career options include policing, customs, child and family services, corrective services, intelligence, insurance and banking investigation, community legal services and government policy or adviser roles.

**Law** Learn about contracts, torts, property law, evidence, constitutional law, equity and trusts, criminal law and corporate law. You can also take optional units in intellectual property, human rights, environment, family law, media

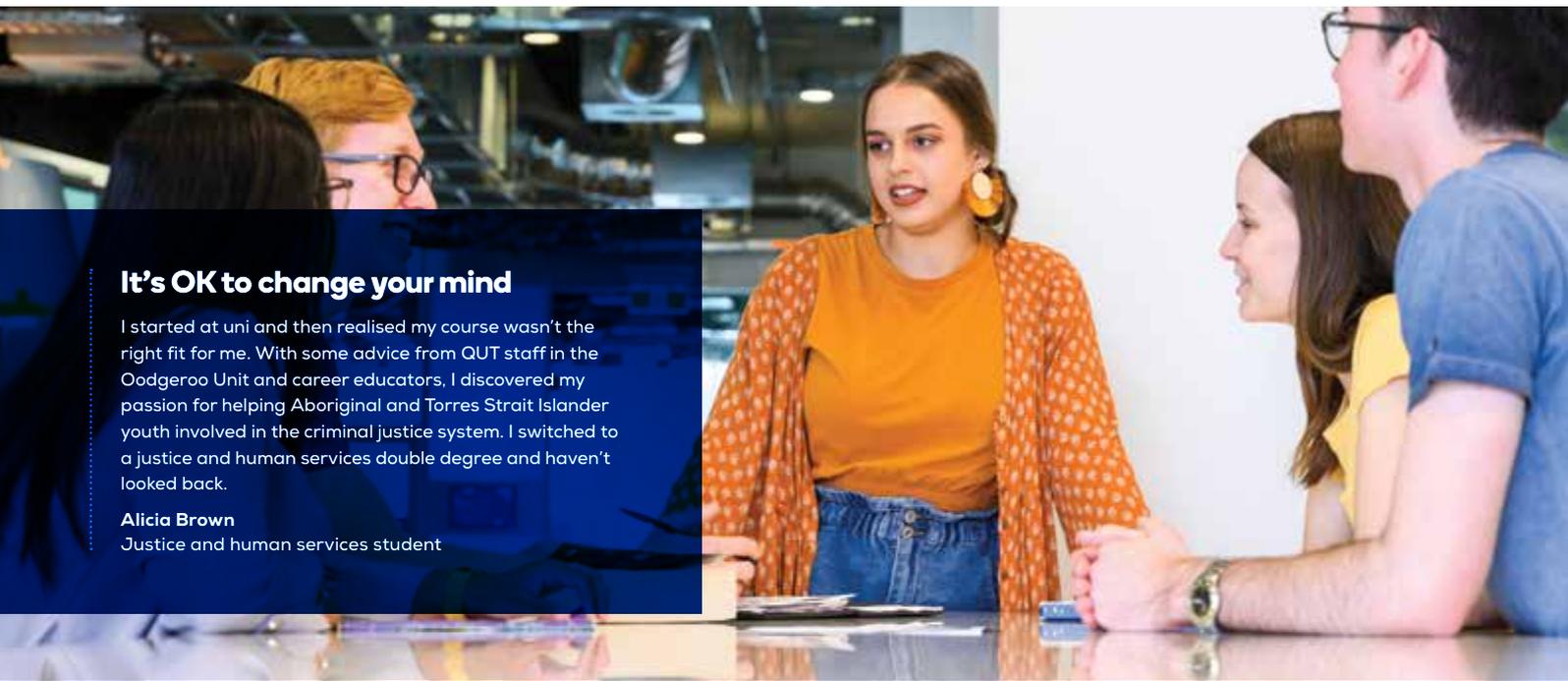
law, health law, artificial intelligence, robots and the law, and other areas, or complete a minor in law, technology and innovation. Graduates work as legal practitioners, or in business, government and community organisations.

**Double degrees Justice** with business, digital media, human services, journalism,

law, professional communication, psychology **Law** with biomedical science, business, creative industries, creative writing, digital media, entertainment industries, film, screen and new media, industrial design, information technology, journalism, justice, property economics, psychology, science

Course	Selection rank	Campus	Duration (years)	Assumed knowledge
Justice	70.00	GP/EX	3	English
Law	87.00	GP/EX	4	English

Refer to table footnotes on page 10.



## It's OK to change your mind

I started at uni and then realised my course wasn't the right fit for me. With some advice from QUT staff in the Oodgeroo Unit and career educators, I discovered my passion for helping Aboriginal and Torres Strait Islander youth involved in the criminal justice system. I switched to a justice and human services double degree and haven't looked back.

**Alicia Brown**  
Justice and human services student

## Ask us

QUT staff are ready to help.



**HiQ—how can we help you?**

Live chat, email, phone and advice  
[qut.edu.au/need-advice](http://qut.edu.au/need-advice)

### International students

This publication has been prepared for Australian students and those with permanent resident status, and is not suitable for international students. For information for international students, visit [qut.edu.au/international](http://qut.edu.au/international)

CRICOS No.00213J

© QUT 2021 24511

Information in this publication was correct at the time of publishing. The university reserves the right to amend any information and to cancel, change or relocate any course. For the latest information visit [qut.edu.au/study](http://qut.edu.au/study)

QUT is committed to sustainability. The paper used in A Quick Guide to QUT 2021 has the credentials:



The Queensland University of Technology (QUT) acknowledges the Turrbal and Yugara, as the First Nations owners of the lands where QUT now stands. We pay respect to their Elders, lore, customs and creation spirits. We recognise that these lands have always been places of teaching, research and learning. QUT acknowledges the important role Aboriginal and Torres Strait Islander people play within the QUT community.