



Curtin University

Undergraduate course guide

20 24

Make tomorrow better.



First Nations acknowledgement

Curtin University acknowledges the traditional owners of the land on which Curtin Perth is located, the Whadjuk people of the Nyungar Nation, and on Curtin Kalgoorlie, the Wongutha people of the North-Eastern Goldfields; and the First Nations peoples on all Curtin locations.

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CURTIN PERTH ACADEMIC CALENDAR

| | SEMESTER 2, 2023 | SEMESTER 1, 2024 | SEMESTER 2, 2024 |
|------------------|------------------|------------------|------------------|
| Orientation Week | 17–21 July | 19–23 February | 15–19 July |
| Semester starts | 24 July | 26 February | 22 July |
| Semester ends | 10 November | 14 June | 8 November |

Applications close two weeks before orientation*.
 Visit curtin.edu.au/calendar for all study periods for 2024.
 Visit curtin.edu.au/deadlines for application deadlines.

*Application closing dates and orientation dates are subject to change and may vary depending on the course. Dates are for Curtin Perth only. Contact other campuses directly for details.

Making a difference

With innovation at our heart, advanced facilities and a global community, we're committed to making a difference.

01 Doctors for the future

First Nations man Isaiah Kamid is part of our second cohort of medical students who have graduated with the skills to make a difference in remote and regional areas where there is a shortage of doctors.

02 Exploring space

Following our successful Binar-1 mission, we are planning another six space missions, including the Binar-X program that will see WA high school students designing and building their own missions for the Binar-5, 6 and 7 spacecraft.

03 Design without waste

Our students are teaming up with industry to tackle challenges in fast fashion, renewable energy, water management and the circular economy, as part of the Curtin Sustainability Challenge.

04 Supporting renewable energy

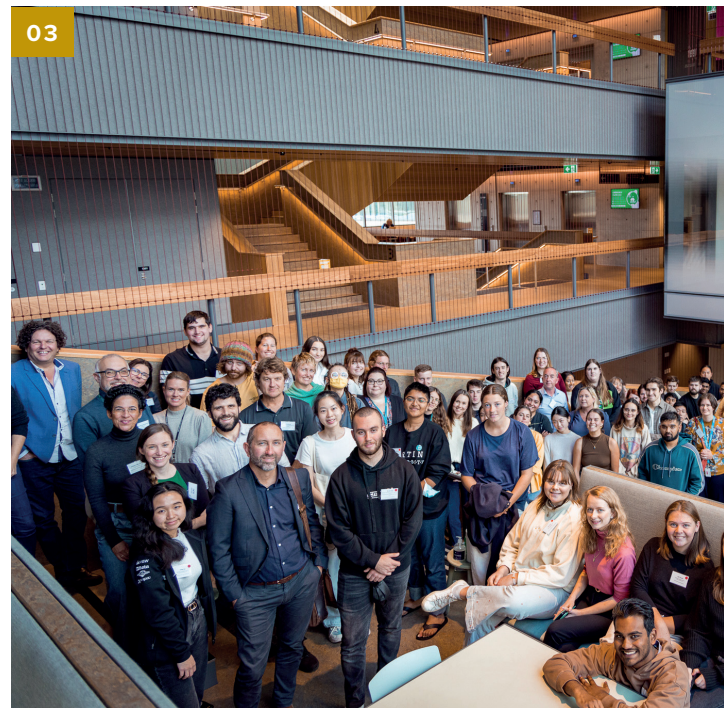
We've launched a new institute to support the transition to clean, sustainable energy, and embrace energy sources such as wind, solar, ocean, geothermal and bioenergy.

05 Celebrating disability

Glamour-fashion enthusiast Amy Evans completed a Bachelor of Commerce (Marketing and Advertising) before setting up her digital marketing company, Little Black Dress Digital. Amy's strong social media presence also demonstrates how she's breaking down disability barriers and stereotypes.

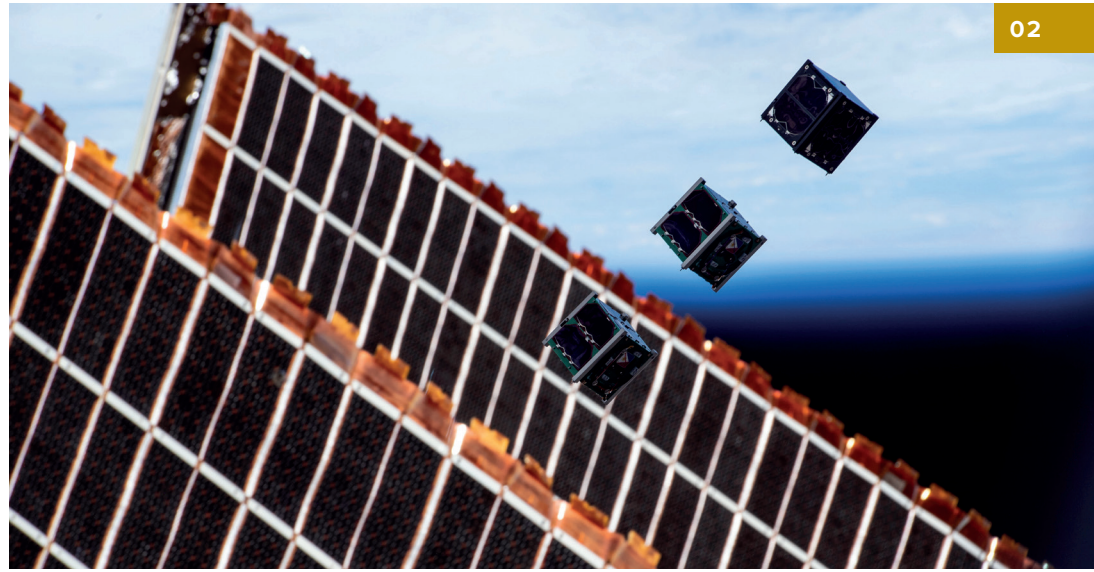
06 Next level AI

The Optus Centre for Artificial Intelligence gives Curtin students the opportunity to design and build next level digital solutions in AI. Projects include using AI to animate your avatar's face in the metaverse and software that can predict, and therefore help prevent, elderly people from falling.





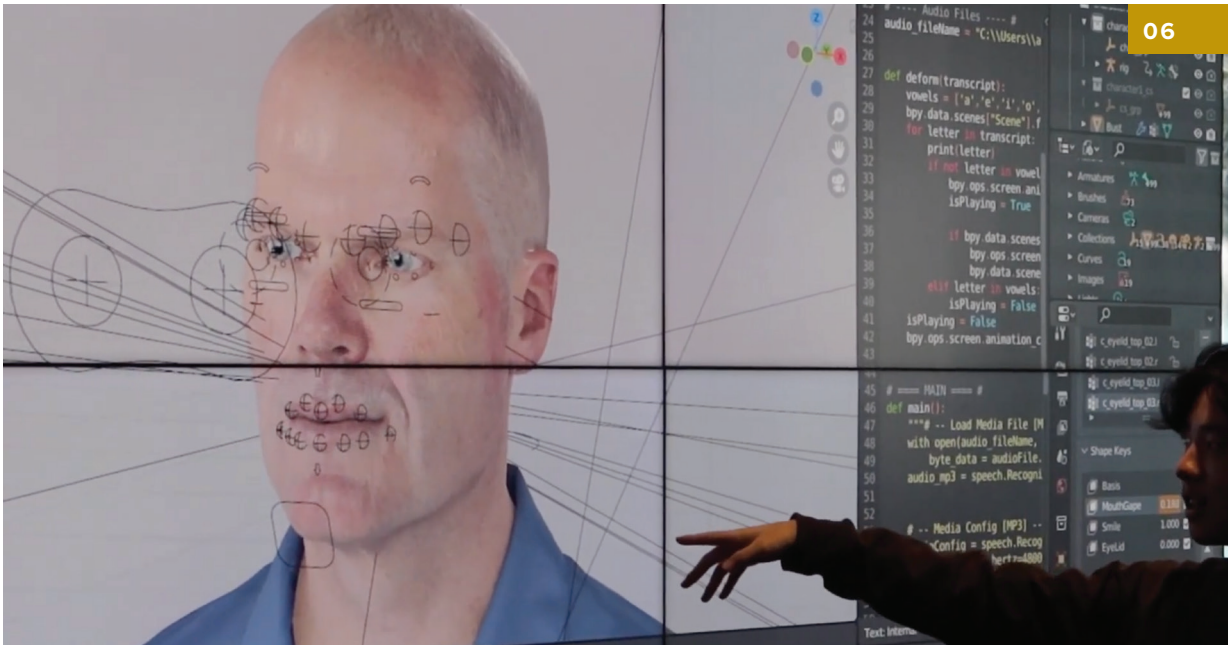
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Start your future career

Our courses are designed in close collaboration with industry experts to ensure you graduate with the skills and knowledge employers are looking for. Throughout your study, you'll be introduced to professional settings through work integrated learning and internships.

Work integrated learning

Experiential learning is highly valued by employers. You will benefit from Curtin's strong links to business and industry, working on real projects and research initiatives, undertaking internships and attending events and networking opportunities. You could visit industrial sites or plants, complete real projects in collaboration with industry, participate in laboratory work or go on field trips.

Career support

We can help you find part-time work in Perth to support you while you're studying. We also offer career planning services to identify further study or career options, while our Global Careers service can connect you with employers around the world.

Visit curtin.edu/careers.

Internships

Industry placements are offered in many courses, so you can gain professional work experience while you study. Depending on your course, you could intern with one of Curtin's many industry partners, local or national businesses, undertake a healthcare clinical placement or take a practicum in a school.

Business start-ups

Suitable for aspiring entrepreneurs, the weeklong Curtin Ignition training program helps you prepare your business ideas for the commercial environment.

Visit curtin.edu/ignition.

Volunteering opportunities

If you're keen to help others, Curtin Volunteers! provides volunteering programs that enrich your student experience and develop your capabilities, while also benefiting communities throughout Western Australia.

Visit curtin.edu/volunteering.



**#1 FOR GRADUATE
EMPLOYMENT**

Of WA's public universities, Curtin has the highest rate of graduates finding full-time employment (Good Universities Guide 2022).



**TOP 1% IN
THE WORLD**

Curtin is ranked in the top 1% of universities worldwide in the highly regarded Academic Ranking of World Universities 2022.



5 STAR PLUS

Curtin is the only WA university to have achieved a QS Five Stars Plus rating, the highest available for a tertiary institution (QS Stars).



Study where the action is

From the heart of the city to regional Western Australia, our locations are thriving places of community and innovation. You'll be connected with a diverse student community and benefit from a global perspective.

PERTH

Curtin Perth is an inspiring and beautiful place offering tech-rich learning spaces, high-impact research and exciting activities. All our courses are available at Curtin Perth, which is located just 6km from Perth city.

PERTH CITY

Curtin Law School in central Perth strengthens our students' links with the legal profession and the commercial heart of Western Australia.

MIDLAND

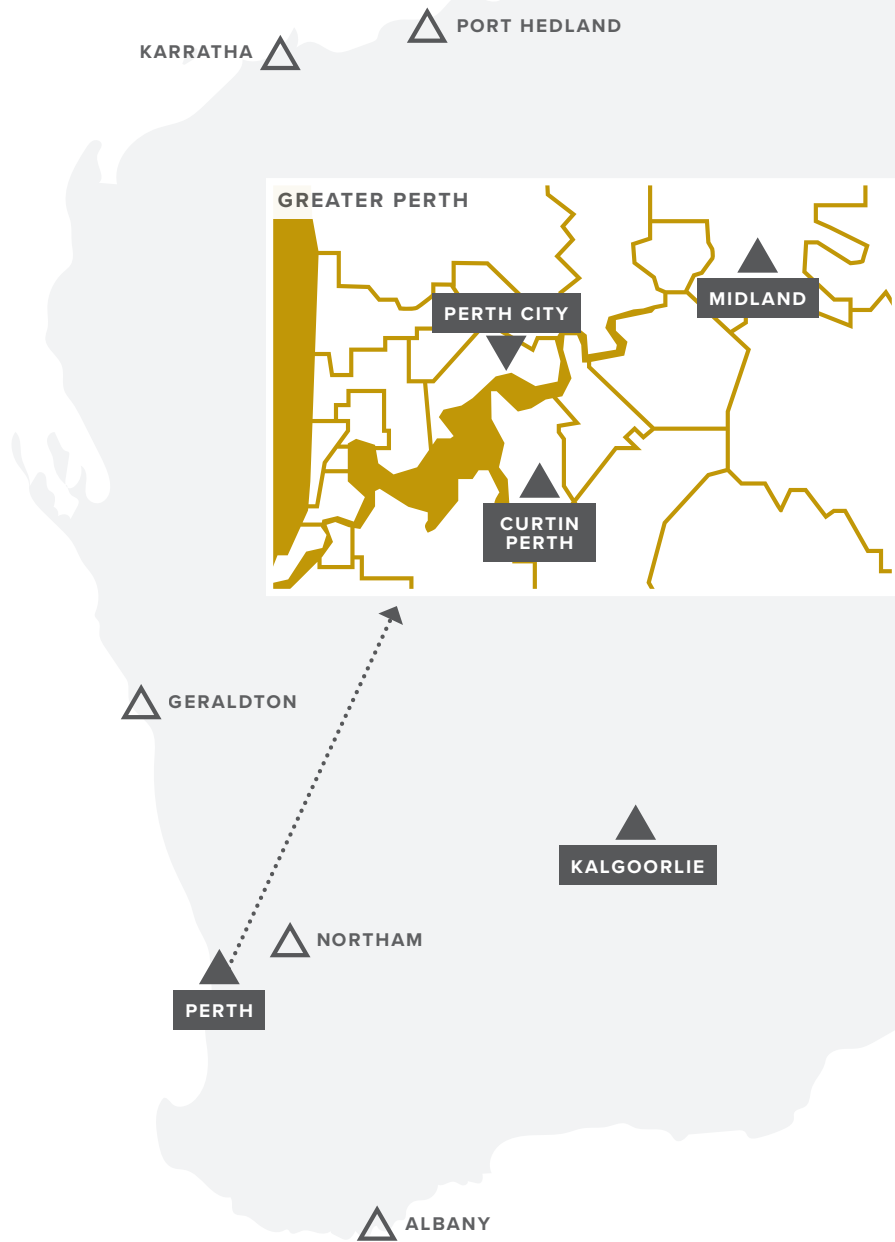
Our distinctive Midland campus provides health students with immersive learning facilities and connects them with the adjacent hospital and nearby health services to apply their studies.

KALGOORLIE

Curtin Kalgoorlie is located in Western Australia's historic gold mining region. You can study our renowned engineering degrees here, as well as online courses in business, education and health.

REGIONAL WESTERN AUSTRALIA

Want to study closer to home? We offer a variety of courses in partnership with higher education institutions in Albany, Northam, Geraldton, Karratha and Port Hedland.



Nowanup Bush Campus

An innovative learning space set on 750 hectares of Nyungar bushland, hosting On-Country education programs delivered by Aboriginal Elders and educators. The bush setting offers a unique opportunity to learn the importance of Aboriginal culture.



Explore your global opportunities



Depending on your course, you may have the opportunity to study at another Curtin campus or at one of our many partner universities in Africa, Asia, Europe, North America or South America.

You'll get to experience other cultures and build an international network that will prove invaluable both personally and professionally.

01 DUBAI

Our Dubai campus gives you the opportunity to study in the heart of Middle Eastern banking, tourism and trade. Its rich culture and economic growth can complement your study in commerce, engineering, IT, psychology and computing.

Visit curtindubai.ac.ae.

02 SINGAPORE

Curtin Singapore is located in one of Asia's major economic hubs, connecting it to the world of international business, and making it the ideal campus to study your commerce degree. You can also study a communications degree and health degrees, including nursing.

Visit curtin.edu.sg.

03 MAURITIUS

Curtin Mauritius offers courses in design, communications, commerce, computing and health science. It delivers a world-class education in a tropical island nation that blends cultures from Europe, Africa and Asia.

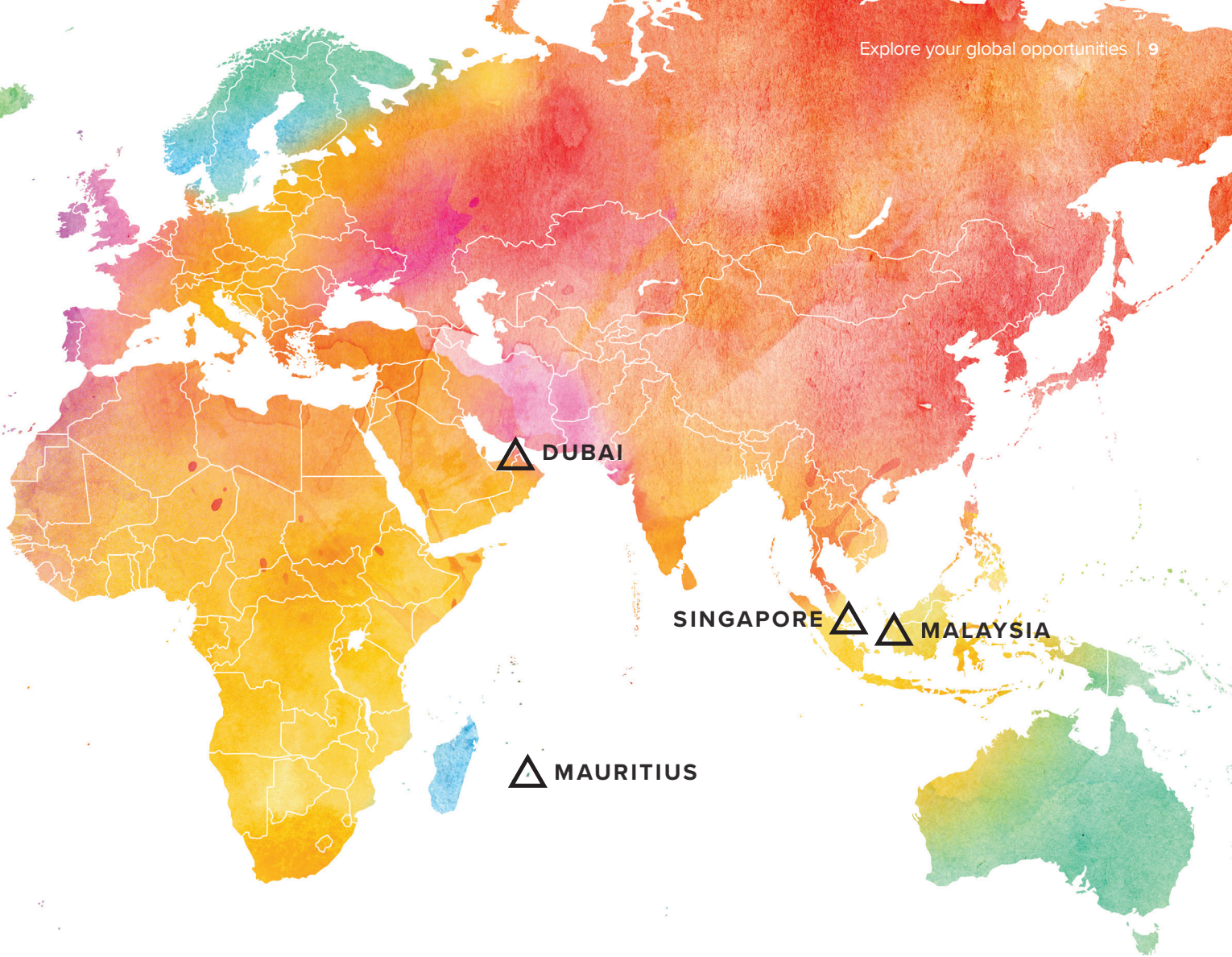
Visit curtinmauritius.ac.mu.

04 MALAYSIA

Located on the island of Borneo, our Malaysian campus is modern and vibrant, featuring lush greenery and lakes. You can study a range of Curtin degrees here, including commerce, engineering, science and arts.

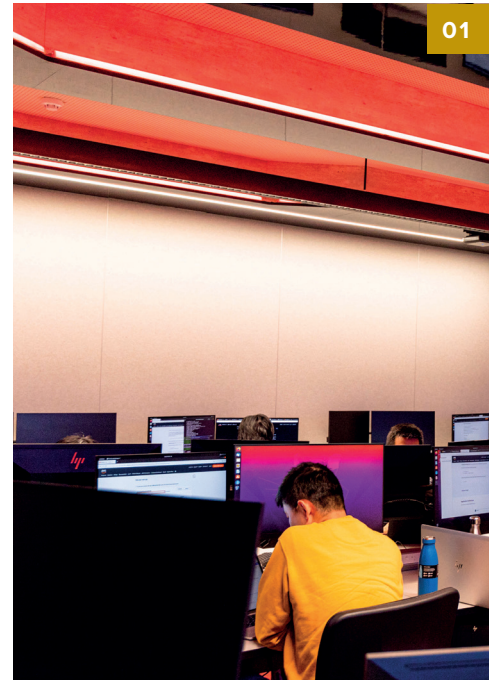
Visit curtin.edu.my.





Benefit from immersive learning

At Curtin, you'll hone your skills in learning environments that simulate real workplaces, so you can step into your chosen career with confidence.



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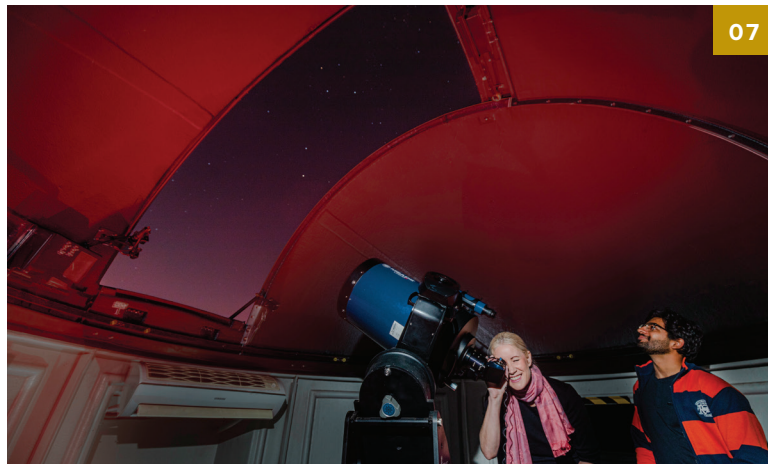
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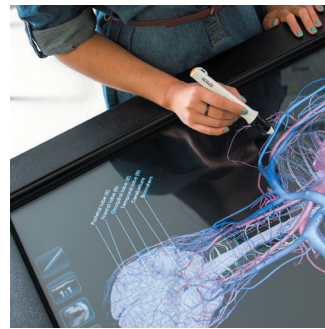
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01 Computer Science Labs

An immersive learning facility with a unique design identity and cyber security lab with changeable colour LEDs in each space.

02 School of Design and the Built Environment

The new technology-rich, five-storey building is designed with exposed mechanical, electrical and hydraulic services and structural elements to help you understand how buildings function.

03 Jeanette Hackett Moot Court

Take part in simulated court proceedings at our high-tech moot court facility in Perth city and practise your debating and legal skills in global student law competitions.

04 Media Production Studio

Make your mark using interactive media facilities with 4K technology and industry-standard digital systems for recording and post-production editing and sound mixing.

05 Simulated hospital ward

Replicating a real hospital in Perth, our simulated hospital ward features acute medical and surgical areas, a critical-care area, a paediatric area and a general simulation room.

06 Industry standard trading software

Commerce and business students can get hands on with Refinitiv Eikon trading and financial analysis software, the tools that professional stock traders use.

07 Astrodome

Featuring a live feed from a 12-inch Meade Refractor telescope, you'll have a direct link to national and global astronomy projects.

08 3D virtual anatomy

Cut, pinch, rotate and zoom on a virtual human body with our Anatomage tables.

09 Curtin Tax Clinic

The Curtin tax clinic is a student-run clinic where you will assist members of the public with their tax return, under the supervision of experienced tax practitioners.

10 Green Energy Electric Park

The GEEP laboratory lets you engage in classes on renewable energy and micro-grids, with seven teaching stations dedicated to seven different types of renewable energy sources and storage.

11 PC2 superlab

Our physical containment level 2, or PC2, teaching lab lets you analyse samples and report results in the same way as an industry laboratory. It features advanced equipment to help identify and classify bacteria.



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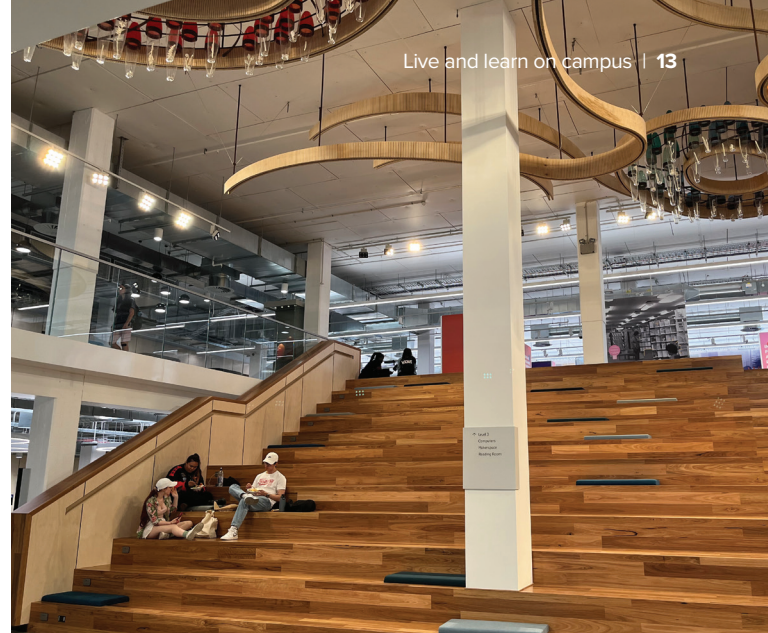
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Live and learn on campus





There is a sense of connection and community both in and out of tutorials and lectures, with collaborative learning spaces and outdoor leisure areas and activities to enjoy between classes.

Buy your essentials on campus

Shops on campus stock a variety of textbooks, stationery, magazines, novels, cards, art and computer equipment. There's a dry-cleaning outlet and self-serve printing and binding.

Fun events

Market days, multicultural week, free live music and the Guild Ball are just a few of the amazing events held on campus.

Technological convenience

Wi-fi is accessed across the campus and there are many places on campus to recharge your devices. We also have several computer labs equipped with printing stations, scanners, graphic workstations, smart boards and current software.

Study hard, play hard

Curtin Stadium is the home of sport and fitness on campus, offering you access to:

- a 900m² fully equipped gymnasium
- a group fitness studio
- a specialised studio
- a health and rehabilitation clinic
- vast outdoor recreation spaces
- indoor and outdoor multi use courts.

With a strong focus on enhancing wellbeing and healthy lifestyles, you're encouraged to participate at any level, from spectator and supporter to representative and competitor.

The facilities, services and programs will inspire and engage you, and contribute to your vibrant student experience. Take the opportunity to try new things, move each day and find out there is more to university life than study.

Visit curtin.edu.au/sport.

Food, glorious food

Whether you need coffee or kombucha, a quick sandwich or a hearty hot meal, you can get it on campus. We have an IGA grocer, great cafés, food trucks galore and more options coming.

Explore the library

The newly-renovated TL Robertson Library is a beautiful, light-filled building in which to study and engage with your classmates and friends. You'll love the variety of study spaces – including group areas and an entire floor dedicated to quiet study; the Makerspace with technologies, tools and materials to unleash your creativity, a reading room with tranquil view of the centre of campus, exhibition space, student kitchen, and the Guild café.

Visit curtin.edu.au/library.

Supporting your health and wellbeing

Studying can be challenging at times, so we offer a range of health and wellbeing services based conveniently on campus. These include a physiotherapy clinic, and a medical centre where you can make an appointment to see a doctor, occupational therapist, psychologist, counsellor or social worker.

If you have a disability or you're caring for someone with a disability, you can access support services and assistance to help you succeed at Curtin. Our Student Wellbeing Advisory service also offers free and confidential support for any issue that may be affecting you, no matter how big or small.

Study support

We acknowledge that uni is different to school study, so we offer support to help you transition to university, such as for peer-to-peer tutoring and library help.

Settling in

You'll start your course with Orientation Week, where you will receive lots of support from Curtin Connect and student advisors.

Get the course advice you need

Head to Building 102 Curtin Connect for advice on courses, applications, enrolment, getting your ID card and organising your timetable.

Security and personal safety

Curtin's Safer Community Team provides a range of services to keep you safe on campus, including 24/7 safety presence and availability, security escort services, mechanical assistance, secure card building access and the SafeZone security app. There are also assistant call points located at main entry doors to each campus building.



Accommodation

If you're looking for independence when you finish school, consider living on campus. You'll enjoy an immersive university experience where you can live, study and socialise.

Curtin Perth has six on-campus accommodation options for you to choose from in 2024 – managed by St Catherine's College and UniLodge. All options are close to the university and various amenities, giving you the convenience of an urban lifestyle, and the opportunity to make connections with other residents who come from many parts of the world.

And when you're ready for a break and want to explore, it's an easy public transport ride or a short drive to the city, Optus Stadium, the South Perth foreshore, local café strips and major shopping precincts.

Benefits of living on campus

Close to amenities

All our accommodation options are a short walk to your classes, giving you more time in your day. You're also close to public transport and a range of supermarkets, cafés, entertainment, health services and recreational facilities in Bentley and surrounding areas.

Access to extras

Our accommodation is furnished, and you'll have access to free wifi, an off-peak gym membership at Curtin Stadium, plus all your utilities included in your weekly rent. St Catherine's College residents also have meals included in the rent. These extras make living on campus competitively priced compared to renting privately.

Independence and friendship

Living in your own place gives you a sense of freedom and independence that you just can't get when you live with your parents. You'll also learn life skills and meet people from different towns, cities, cultures and countries. The friendships and experiences you'll gain could last you a lifetime.

Peace of mind

This one's for parents and guardians: living on campus is the ideal way for your child to gain independence and readily engage with their studies in a safe and structured environment. They're close enough for you to check in on, but far enough away for you to get back some of your own freedom, too.

Better outcomes

A recent US study* found that students who live on campus are more engaged in academic activities and feel more connected to their university community.

*The Case for Campus Housing: Results from a National Survey, 2021.

St Catherine's College

St Catherine's College offers a personalised and supportive residential experience that helps you achieve success in your university studies and beyond.

Rent includes meals and academic support tailored to suit the different stages of your university journey, such as free tutoring and formal academic dinners. It features an impressive dining hall, dedicated study spaces, common areas and music rooms. There are various room types that give you options to have a little extra space, and décor is modern and neutral so you can make it your own.

UniLodge

The five UniLodge properties at Curtin Perth offer a range of independent living options to suit different needs and budgets, including self-contained studios with ensuites and furnished private rooms in shared apartments. When you live on campus with UniLodge, you can enjoy weekly events and activities, have security 24/7, plus you don't have to pay a bond or security deposit.

Studying in Kalgoorlie?

If you are studying at Curtin Kalgoorlie as part of your degree, you can live at the Agricola student accommodation. Agricola is located across from the campus and is just a short walk to the town centre.





▶ ▶ ▶ Visit curtin.edu/accommodation.

Manage your time



At Curtin, you're in control of your education. You will enjoy the freedom it brings, and it will help you develop skills that employers look for: time management, organisation, teamwork, multi-tasking, goal-setting, negotiation and networking.

Responsibilities

University is an adult learning environment, so no-one will chase you up for late homework! You'll be responsible for completing your own paperwork, planning your timetable, attending your set classes and handing in your assignments. For many units, class attendance and participation is part of your grade.

Time management

Your class times and contact hours will vary from day to day, so it's best to organise your week carefully. If you need help with managing your time, use a diary or planning app so you can stay on track and know what's coming up.

Independent learning

As well as learning from tutors, you'll also be expected to do your own learning outside of class and bring your knowledge to your next class. It's a great way to get a number of perspectives and ideas on a topic.

Planning your timetable

Even before you come to Curtin, you can plan your potential class schedule on our website and try different unit combinations to find a timetable that best suits you. You can also view class information for any of your timetabled units.

Visit timetable.student.curtin.edu.au.

Online lectures

The iLecture system is a quick and easy way for you to access recordings of your unit lectures or other video-based resources prepared by your lecturers. You can access them through Blackboard.

Three apps to help with your study sessions

1. **Quizlet** - is the perfect active recall app. You can create your own flashcards for whatever subject you're studying, or if you're lucky, someone has already created a set for you to use!
2. **Podcastle** - Turn your class content into audio. If you're an auditory learner, information retention is more successful when you listen to the content.
3. **Freedom** - This app disables the notifications coming through your phone and computer while you study, giving you a more productive, distraction-free study session.

Glossary

Course types

Bachelor degree

The standard university award recognised worldwide for successfully completing an undergraduate course.

- **Double degree:** Studying two complementary bachelor degrees concurrently. For example, Bachelor of Laws and Bachelor of Arts.
- **Honours:** Additional research and coursework at an advanced level.

Postgraduate degree

A higher degree qualification and subject specialisation that can be studied once you have completed a bachelor degree.

Undergraduate study

Education that leads to your first qualification from a university, usually a bachelor degree.

Course structure

Clinical placement

Working as part of a team in a clinical setting, under supervision.

Fieldwork

An umbrella term for any approved practical work, teaching, study, volunteer or research activity, outside the normal place of University business.

Fieldwork encompasses clinical placements, work placements, practicums, study tours and field trips.

Major

A series of more than eight units in the same area within a bachelor degree. A major includes at least two units at final-year level.

- **Double major:** Studying two majors within a degree course. For example, Bachelor of Commerce (Economics and Finance).

Professional placement/internship

Working in a professional environment to extend your knowledge and practical skills.

Specialisation

A specialisation is a set of four units in the same discipline. It may complement your bachelor degree or major, or be from a completely different discipline. For example, you may study a Bachelor of Commerce (Marketing) and complement this with a humanities specialisation such as Korean Studies.

Stream

A series of six units in the same discipline.

Unit

A component of a course that covers one subject area in detail. A unit may comprise lectures, tutorials, class presentations, group work, computer lab sessions, case studies, workplace assignments and exams.

- **Core unit:** A compulsory unit, which is specified in the course outline.
- **Elective unit:** A unit that can be chosen from any discipline as long as you meet the prerequisites.
- **Optional unit:** A unit that you choose from a specified list provided in the course outline.

Course essentials

ATAR

The Australian Tertiary Admission Rank, used for allocating places in university courses.

- **Guaranteed ATAR:** A rank that guarantees you a place on the course provided you meet the course prerequisites and English proficiency requirements.
- **Minimum ATAR:** The lowest rank you need to be considered for entry to a course.

Accreditation

The formal recognition of a course by an accrediting body.

Professional membership

Eligibility to access services that support professionals in that field.

Professional recognition

A formal acknowledgement of your professional status, which may be required to practise in your field.

Duration

The time it will take to complete the course if you study full-time.

Intake

The semester or trimester when you can begin studying the course.

Location

Curtin campuses that offer the course.

Portfolio entry

A pathway into Curtin's courses if you're taking General subjects at high school, or are studying a combination of ATAR, General and/or VET certificates. It is also suitable if you've finished school without an ATAR.

Prerequisite

A subject or unit you must complete before starting a course or taking a higher-level unit.

STAT

The Special Tertiary Admissions Test (STAT) is a national test for those who don't meet university admission criteria.

STAT can be used to meet entry criteria for some courses, or as a way to satisfy Curtin's English proficiency requirements if you haven't done so through year 12.

Visit tisc.edu.au/static/guide/stat.tisc

Study mode

How much study you undertake in a semester or a trimester.

- **Domestic students:** Full-time study is three or four units per semester. Part-time study is one or two units per semester. Studying part-time reduces your weekly workload but extends the duration of your course.
- **International students:** International students studying in Australia on a student visa must study four units per semester for most courses. A small number of courses allow a study load of three units.

Other university terms

Advanced standing / credit for recognised learning

Recognition of any previous study or work experience you have that may exempt you from having to study some units of your degree.

Faculty

A teaching area comprising university schools and disciplines.

OUA

Open Universities Australia.

Semester

A 16-week study period. There are two semesters per calendar year.

TISC

The Tertiary Institutions Service Centre processes university applications on behalf of the four public Western Australian universities. It also administers STAT.

Trimester

A 14-week study period. There are three trimesters per calendar year.

WACE

Western Australian Certificate of Education.





Portfolio entry

Portfolio entry is a pathway into our courses if you're taking General subjects at high school, or you're studying a combination of ATAR, General and/or VET certificates. It's also suitable if you've finished school without an ATAR.

The portfolio entry pathway offers entry into a select range of business, health, science and humanities degrees. Each course in this guide shows whether portfolio entry is accepted.

Academic requirements

- At least one ATAR subject, or a grade A in at least one General subject.
- Meet Curtin's English requirement through one of the following:
 - ATAR English/Literature/EASLD, scaled score of 50 or
 - STAT Written English, score 140 or
 - General English, grade A or
 - a qualification listed at curtin.edu/englishlanguage.

Portfolio requirements

The basis of your application is a portfolio of documents that showcase your academic achievements, qualifications, work experience, extra-curricular activities and suitability for tertiary study.

Things to include are a cover letter, resume, letter of support, academic documents and records of extracurricular activities, like leadership programs, sporting achievements, competitions and part-time work.

You apply for portfolio entry through TISC if you're planning to start your course in first semester, or directly to Curtin if you want to start in second semester.

For more information, visit curtin.edu/portfolio-entry.

More ways to get into Curtin courses

There are many other pathways into Curtin courses. See our pathways diagram on page 123 to find a pathway that suits your set of circumstances.

For more information visit curtin.edu/pathways.





Choosing what to study

Our degrees provide opportunities to choose from a range of subjects, giving you the freedom to study towards your dream career and pursue personal study interests at the same time.

Single degrees

A single degree is three to five years of full-time study in one specific subject. You will learn about a wide range of topics within this subject, but ultimately your studies focus on your chosen area. You'll gain in-depth knowledge and graduate an expert in your field.

Double degrees

Some of our degrees can be paired with another degree to broaden your knowledge. A double degree increases your skills and knowledge across two complementary learning areas, giving you more career choices and the flexibility to adapt to changing employment trends.

Majors and specialisations

You can also tailor your learning within your degree to suit your interests and career path.

Depending on your course, you can mix majors (a series of eight units) with specialisations (a series of four units) to broaden your professional expertise and deepen your industry knowledge – which will improve your career opportunities and ability to pursue your professional goals.

Studying specialisations can give you the exact skill set you want for your chosen career.

Here are some examples:

- A major in Multidisciplinary Science with a specialisation in Professional Writing and Publishing can create a career option in professional science communication.
- A major in Environmental Science with a specialisation in Law can help you make an impact in environmental policy and regulation.
- A major in Animation and Game Design with a specialisation in Innovation and Entrepreneurship can help you pave your own way and grow an entrepreneurial venture.

Discover your dream career with our online quiz

Take our fun 5-minute quiz to know which courses and careers match your personality.

Visit curtin.edu/quiz.



See how you can build a distinctive career that can make a difference.

Visit curtin.edu/specialisations.

Study areas



Agriculture, environment and sustainability

Find out how we manage, preserve and protect the living world, and turn your ideas into innovative solutions that address global warming, food production and risks to flora and fauna.

PAGE 24

Education

Teachers pass on knowledge, confidence and learning – both in the classroom and beyond. Would you like to help others fulfil their potential?

PAGE 68



Business, management and law

Inspire others through leadership, grow your capabilities as a manager, or pursue a career in law. Our courses are practical and applied, offering direct input from industry leaders.

PAGE 50



Health

Our health degrees give you plenty of hands-on experience – through fieldwork and placements in our clinics and research centres, and with our industry partners.

PAGE 88



Information technology

Grow your knowledge in programming computers, administering networks, designing software and multimedia, and use artificial intelligence in real-life situations.

PAGE 104



Study areas | 23

Engineering, mining and surveying

Develop your problem-solving skills and learn to design, construct and test machines, systems, structures, materials and processes.

PAGE 74



Arts, culture and creative industries

Lead with your imagination and hone your creative skills in our excellent facilities. You can learn how to turn your creativity into a viable business and make your mark on the world.

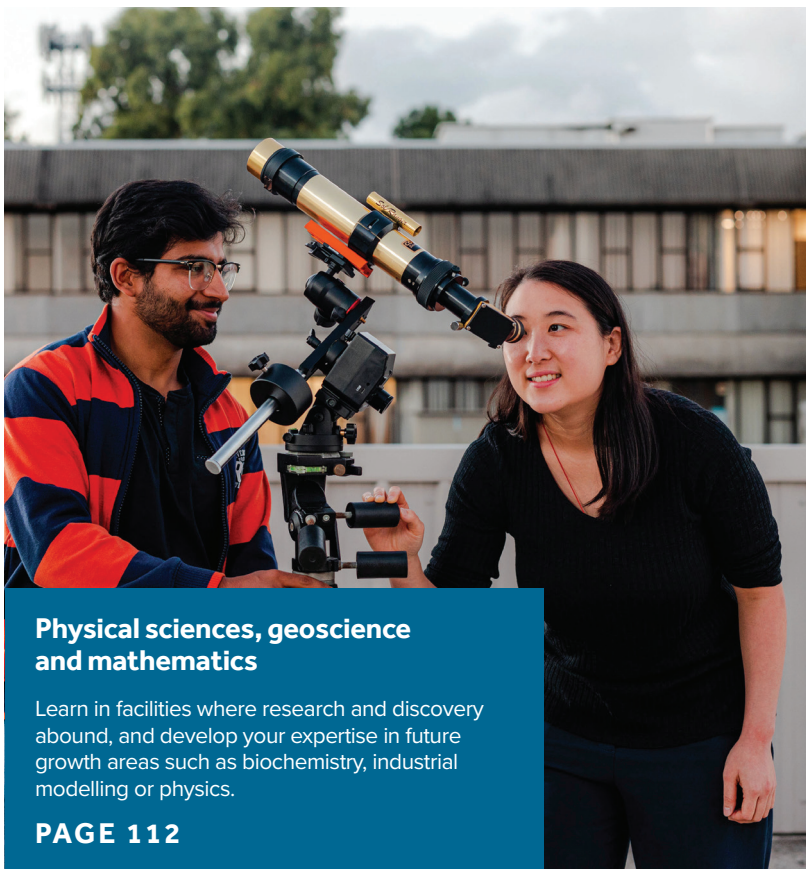
PAGE 36



First Nations

Start your university journey in a culturally appropriate environment that will help you on your career path.

PAGE 84



Physical sciences, geoscience and mathematics

Learn in facilities where research and discovery abound, and develop your expertise in future growth areas such as biochemistry, industrial modelling or physics.

PAGE 112

Architecture and construction

Can you see the detail and beauty in structures and buildings, both inside and out? Our courses help you create quality environments in which people can live, work and play.

PAGE 30



Agriculture, environment and sustainability

TRENDS TO WATCH

- Artificial intelligence
- Bioengineering
- Vertical farming
- Drones
- Regenerative agriculture

In these courses, you can learn about sustainable, economical and ethical food production, examine the relationships between people, places and environments, find ways to conserve the land and marine environments, and manage the risks associated with global warming.

Courses

Agribusiness

Agribusiness (associate degree)

Agriculture Science

Coastal and Marine Science

Environmental Science

Food Science

Geography

See also

Advanced Science (page 113)

Surveying (page 83)

Agribusiness

Gain the skills to address agricultural concerns such as food security, farming systems, climate challenges and shifting markets.

DEGREE

Bachelor of Agribusiness

GUARANTEED ATAR

70

PREREQUISITES

Mathematics Applications ATAR

DESIRABLE

Animal Production Systems, Aviation, Biology, Chemistry, Earth and Environmental Science, Engineering Studies, Human Biology, Integrated Science, Marine and Maritime Studies, Physics, Plant Production Systems, Psychology, Computer Science, Applied Information Technology

STAT

Accepted

PORTFOLIO ENTRY

Accepted

INTAKE

Semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

029345C

LEARN MORE

curtin.edu/bach-agrib

Overview

Agribusiness links agricultural producers with consumers, encompassing the entire food production system from paddock to plate. Agribusiness also has a key role in addressing global challenges such as food security and farming systems under fluctuating markets, changing climates and shifting consumer demands.

During your studies you'll be introduced to the scientific knowledge and business principles of agriculture and production systems – including soil, crop and livestock management technologies.

Working individually and in teams, you'll learn how to apply problem-solving techniques to management strategies and develop agribusiness risk and farm management skills. At Curtin's field-trial site and glasshouse facilities, you'll engage in research-led activities and self-directed experiments.

During the course you'll have opportunities to develop links with industry experts and undertake field trips to research centres, agronomic field sites and farms. You'll also complete a work placement with an agriculture research, production or business organisation in Australia or internationally.

This course contains approximately 38 hours of field work and/or work placements.

Career information

Careers

- Agricultural and resource economist
- Agricultural scientist
- Agronomist
- Biotechnologist
- Farm management and farm consultant
- Grain trader
- Research trials manager
- Soil scientist.

Industries

- Agriculture
- Agriculture marketing and supply-chain logistics
- Agricultural product supply
- Agronomy services
- Banking and finance
- Consultancy
- Farmer grower groups
- Farming
- Research.

Agribusiness (associate degree)

Start your journey to a career in agribusiness or use this course as a pathway into a bachelor degree.

DEGREE

Associate Degree in Agribusiness

PREREQUISITES

None

DESIRABLE

Mathematics Applications ATAR

STAT

N/A

PORTFOLIO ENTRY

Required

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

2 years full-time

LOCATION

Geraldton, Muresk

CRICOS CODE

098315D

LEARN MORE

curtin.edu/ad-agrib

In this course you will gain an understanding of the agricultural systems and business principles involved in the production, processing, marketing and distribution of food. The topics you'll study include:

- agribusiness accounting, economics, finance, management and marketing
- agricultural production systems, including animal and cropping systems
- broadacre crop and pasture science
- farm business management
- international agricultural trade
- soil and water resources.

This course has been designed in collaboration with industry and involves substantial exposure to practical farm management, to ensure you graduate with the technical and business skills needed in agricultural production, farm management and equipment consultancy and sales.

The associate degree is also a pathway into the Bachelor of Agribusiness, providing at least 12 months credit.

If you don't have a WA Certificate of Education (WACE), you should complete the UniReady program and apply for entry after one semester.

Career information

Careers

- Agribusiness banking
- Agronomic and livestock sales
- Agronomic and livestock technical services
- Business consulting
- Commodity trading
- Exporting
- Financial management
- International marketing
- Professional farm management.

Industries

- Agriculture
- Agriculture marketing and supply chain logistics
- Agricultural product supply
- Agronomy services
- Banking and finance
- Consultancy
- Farmer grower groups
- Farming
- Research.

Agricultural Science

Get an industry-ready understanding of the science and technology of agriculture.

DEGREE

Bachelor of Science (Agricultural Science)*

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-agric

* Agricultural Science can also be studied as part of the Bachelor of Advanced Science (see page 113).

Overview

Agriculture is the science and practice of food and fibre production. Australia has the potential to be a leader in developing innovative solutions for sustainable, economical and ethical food production, across domestic and international markets.

The Agricultural Science major is designed to give students an industry-ready understanding of the science and technology required for the production of plants and animals for food and fibre.

The study of agricultural science is multi-disciplinary. It builds from the basics of biology, chemistry and statistics, to the components of agricultural systems – including soil science, crop science, animal science and molecular genetics.

Topics range from overarching issues such as food security, sustainability and climate change, to specifics of crop and animal production and soil health.

You'll be introduced to satellite-based technologies used in precision agriculture for crop, pasture and livestock management systems.

During your studies you'll have opportunities to engage with Curtin-based research centres, which could lead to career options in those areas.

With food production and security being important issues for both developed and emerging economies, careers in agricultural production and development are available throughout the world.

There are also career options in research, extension and service provision to agriculture and horticulture industries.

Professional recognition

As a graduate, you're eligible to apply for membership of the Australian Institute of Agricultural Science and Technology.

Career information

Careers

- Agricultural management/consultant
- Agricultural and resource economist
- Agricultural scientist/technologist
- Agronomist
- Biotechnologist
- Climate scientist
- Plant breeding
- Soil scientist.

Industries

- Agriculture
- Agriculture and grain marketing
- Agricultural supply chain logistics
- Biosecurity
- Chemical industry
- Farmer grower groups
- Food security
- International agricultural aid
- Private farming
- Plant and animal breeding
- Government agriculture departments.

Coastal and Marine Science

Be a part of Australia's coastal and marine science community that is ensuring the sustainable management of our marine environment.

DEGREE

Bachelor of Science (Coastal and Marine Science)*

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR

DESIRABLE

Animal Production Systems ATAR, Applied Information Technology ATAR, Aviation ATAR, Biology ATAR, Chemistry ATAR, Computer Science ATAR, Earth and Environmental Science ATAR, Engineering Studies ATAR, Human Biology ATAR, Integrated Science ATAR, Marine and Maritime Studies ATAR, Physics ATAR, Plant Production Systems ATAR or Psychology ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-coamar

** Coastal and Marine Science can also be studied as part of the Bachelor of Advanced Science (see page 113).*

Overview

Marine environments all around the world are increasingly vulnerable to climate change and continued coastal development and resources extraction.

This major responds to the growing need to protect Australia's coastlines, with an emphasis on marine biology, oceanographic sciences and resource management.

The course is informed and delivered by staff with research expertise in fish ecology, coral reef ecology, marine pollution, coastal geomorphology, sustainable fisheries and aquaculture. It has been designed with industry input, to ensure you develop scientific and marine research skills. You will be challenged to think as a marine scientist, developing your initiative and intellectual curiosity to help understand and protect the marine environment.

During your studies you'll interact with professionals working in marine and coastal science and management, such as Western Australia's departments of Fisheries, Environmental Protection, and Environment and Conservation; marine science consultancies; and Curtin's Centre for Marine Science and Technology.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Aquaculturalist
- Ecotoxicologist
- Environmental officer
- Fisheries scientist
- Marine scientist
- Natural resource manager.

Industries

- Aquaculture
- Coastal management
- Ecotourism
- Fisheries
- Marine conservation
- Pollution control.



Environmental Science

Help to solve the issues related to urban and regional development, pollution, and the protection of global biodiversity.

DEGREE

Bachelor of Science (Environmental Science)*

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR

DESIRABLE

Chemistry ATAR or Biology ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-ensci

** Environmental Science can also be studied as part of the Bachelor of Advanced Science (see page 113).*

Overview

Exploitation of the natural environment has taken a serious toll on the planet. Increasingly, environmental scientists are needed to apply their understanding of environmental functions and processes to challenges relating to land degradation and biodiversity loss; urban and regional development; mining, oil and gas extraction and processing; and pollution.

In this course you will gain expertise in zoology, botany, ecology, genetics, environmental management, conservation and sustainability. Throughout the course you'll also have opportunities to participate in field activities that develop environmental monitoring skills alongside laboratory and computer-based skills.

You'll also gain skills in experimental design, statistics, critical thinking and communication that are necessary for environmental research; and complete a capstone research unit involving a week of field- or laboratory-data collection. This experience, together with a work-integrated learning unit, will ensure you can apply the skills gained during your studies to real-world environmental issues.

You can select from a large range of specialisations to study with this major. Combining this major with the Environmental Management specialisation and a selected minor will position you to help address current and future environmental challenges.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

Depending on your area of specialisation, on graduation, you will be eligible for membership of the Australian Institute of Biology, the Royal Australian Chemical Institute, the Australian Institute of Geoscientists, the Australian Mathematics Society or the Australian Institute of Physics.

Career information

Careers

- Environmental scientist
- Conservation scientist
- Environmental consultant
- Mine restoration consultant
- Natural resource manager
- Remediated lands consultant.

Industries

- Environmental
- Government policy and planning
- Research and development
- Urban and regional planning.

“I loved that the course was diverse and engaging. All the units involved developing practical skills, such as writing scientific reports and using Geographic Information Systems. Participating in field trips and undertaking a one-year internship was also a great way to apply my knowledge and gain experience.”

Ebony Kershaw

Bachelor of Science
(Environmental Science)

Food Science

Find your career in the expanding and diverse fields of food sciences and food securities.

DEGREE

Bachelor of Science (Food Science)

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR and Chemistry ATAR

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-fsci

Overview

Careers in food science are diverse and challenging: one day you could be developing a new food product, and the next you could be solving technical issues on a processing line.

Food scientists develop and improve ways to process raw ingredients – including grains, meats, milk, fruit and vegetables – into safe, tasty and nutritious foods.

The study of food science is multidisciplinary. It involves biology, chemistry, nutrition, microbiology and engineering, as well as the latest research in the handling, processing and packaging of foods – from the farm to the consumer's plate.

This degree has been created to provide a pathway to a professional career in the industry or to further study in the expanding fields of food sciences and food securities.

Career information

Careers

- Food scientist/technologist
- Food microbiologist
- Food product development
- Quality control technologist.

Industries

- Agricultural research
- Airline and hospitality
- Analytical laboratories
- Education
- Food manufacturing and supply
- Food marketing and sales
- Hospitals and health agencies
- Research and development
- Supermarket and grocery
- Wine and viticulture.

Geography

Analyse opportunities and threats that arise from urbanisation, globalisation and climate change.

DEGREE

Bachelor of Arts (Geography)

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

Geography ATAR

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

068750M

LEARN MORE

curtin.edu/bach-geogr

Overview

Geographers are social and environmental scientists who help improve our understanding of the world. They're interested in the convergence of people and the environment, and in our relationships with urban, rural, regional and remote spaces.

In this course you will gain the skills to address major issues such as climate change, growth of cities, bushfires, food security and changing communities.

You'll explore migration changes, social movements and contests over space and place. You'll develop analytical and practical fieldwork skills, such as interviewing and surveying, mapping, participant observation and statistical analysis, recording field notes and writing demographic reports. You'll also learn spatial analysis and mapping using ARCGIS and other software.

You'll apply your learning to local environments during fieldtrips within Perth, Fremantle and the Wheatbelt. Your studies will benefit from our strong links with local communities and industries, as well as our Sustainable Livelihoods program with Papua New Guinea.

Geography is offered as part of the Bachelor of Arts. You can enhance your studies with a second major or choose from a range of elective units that support your career goals.

When coupled with Economics you can complete this major as part of our Bachelor of Arts or our Bachelor of Commerce. Your choice will determine your core units.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Bushfire management consultant
- Community development officer
- Demographer
- Environmental assessor
- Geography teacher*
- Landcare advisor
- Natural resource manager
- Regional development coordinator
- Spatial analyst
- Sustainability officer.

* Requires a Master of Teaching in Secondary Education.

Industries

- Disaster management
- Education
- Environmental assessment
- Government
- International development
- Natural resource management
- Regional planning and development
- Sustainability.

Architecture and construction



RANKED #1

We're ranked number one in Western Australia and in the top 100 globally for architecture.

QS World University Rankings by Subject 2022



The growing need for infrastructure provides opportunities to work on diverse projects, from designing houses, parks and collaborative spaces, to building hospitals, shopping centres and transport routes.

In these courses, you'll learn to create quality environments, take new approaches to visual ideas and celebrate futuristic possibilities.

Courses

Architectural Science

Construction Management

Interior Architecture

Urban and Regional Planning

See also

Civil and Construction Engineering
(page 76)

TRENDS TO WATCH

- Rooftop playgrounds
- Frameless windows
- Smart home systems
- Buoyant buildings
- Portable homes



Architectural Science

From designing houses and parks to building hospitals and shopping centres, the growing need for infrastructure opens many career opportunities.

DEGREE

Bachelor of Applied Science (Architectural Science)

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

Mathematics Applications ATAR, Visual Arts ATAR, Physics ATAR

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

003868A

LEARN MORE

curtin.edu/bach-arch

Overview

Architecture combines creative practices of architectural design with the cultural, social, technical and sustainability issues of the built environment.

In this course you will study the relationship between the natural and constructed environment, the architectural proposition and the occupation of space.

This degree is taught by academic staff, industry practitioners and guest lecturers, and is a pathway for the two-year accredited Master of Architecture qualification.

Curtin's architecture students benefit from valuable industry experiences. For example, design company GHDWoodhead and government entity Water Corporation have both provided hands-on design opportunities to Curtin students.

Curtin students have also enjoyed opportunities to work with key industry consultants such as Woods Bagot, Cox and Hassell.

Course structure

You will study core units and specialise in one of the following:

- Construction Management
- Design Thinking and Visual Communication
- Designing Fashion
- Interior Architecture
- Principles of Planning
- Animation and Game Architecture Design.

Professional recognition

To pursue a career as an architect in Australia, you must be registered with the relevant state's Architects' Board. Curtin's accredited Master of Architecture program, when combined with relevant professional experience and successful completion of the Architectural Practice Examination, fulfils one of the pathways to registration.

Career information

Careers

- Building consultant
- Draftsperson
- Architect (after completing the Master of Architecture).

Industries

- Building and construction
- Local government.

“I was excited to see that Curtin had the best ranking for Architecture in WA and was amongst the best in Australia. The course structure, focus on industry-ready and the overall atmosphere at Curtin were also big draw cards. The course lets you explore all sorts of creative avenues, and the tutors are always super supportive in helping you achieve any of your goals.”

Niamh Aitken-Lombardo

Bachelor of Applied Science
(Architectural Science)

Construction Management

Prepare for a professional career in building and construction with this management-oriented course.

DEGREE

Bachelor of Applied Science (Construction Management)

GUARANTEED ATAR

70

PREREQUISITES

Mathematics Applications ATAR

DESIRABLE

Mathematics Methods ATAR or Mathematics Specialist ATAR

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE*

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth, Malaysia

CRICOS CODE

010548C

LEARN MORE

curtin.edu/bach-conm

* Perth intake shown

Overview

Construction managers work across a range of interrelated disciplines on residential, commercial and infrastructure projects.

This is a management-oriented degree that will prepare you for professional roles in the building and infrastructure construction industries.

The course is designed in collaboration with Curtin's industry partners, including the Australian Institute of Building, the Masters Builders Association of Western Australia, Broad Construction and Laing O'Rourke. You will learn from dedicated professionals with construction-related qualifications and experience.

Learning areas include:

- construction technologies
- quantity measurement
- project planning and management
- strategy and financial management
- contract administration
- construction law
- cost estimating, planning and management
- communication skills.

You will have the opportunity to visit construction sites in Perth and participate in international study trips.

Throughout your course you will complete projects and assignments related to the construction industry, and in your fourth year you may complete a supervised research project in the honours stream.

You are required to undertake 80 days' work experience prior to graduating.

Career information

Careers

- Construction manager
- Contract administrator
- Project manager
- Building technician
- Property developer
- Building surveyor
- Building contractor
- Estimator
- Quantity surveyor.

Industries

- Building and construction
- Local government
- Infrastructure
- Mining
- Oil and gas.





Interior Architecture

Design attractive and sustainable interiors using visual ideas that work with changing trends and future lifestyles.

DEGREE

Bachelor of Applied Science (Interior Architecture) (Honours)

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

None

STAT

Accepted

PORTFOLIO ENTRY

Accepted

INTAKE

Semester 1, semester 2*

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

023967K

LEARN MORE

curtin.edu/bach-intarch

* Semester 2 intake is suitable for those wishing to study this course part-time, or who have sufficient credit for recognised learning.

Overview

Interior designers offer creative, proactive and innovative design solutions.

In this course you'll develop a solid foundation in critical design thinking and theory relating to human occupation and explore how the human experience is central to interior architecture.

Through work-integrated learning opportunities, you'll work on real projects, undertake site visits, create site documentation and deliver client briefings. You may also pitch design concepts to real clients and practitioners.

You will learn key employability skills including communication, creative problem solving and collaborative work practice. You'll also learn to be mindful of environmental impact and sustainability by anticipating different scenarios and predicting the consequences of current actions.

The content of this course has been overseen by an Advisory Board made up of renowned industry practitioners. This approach ensures that graduates of this course align with industry aspirations.

Students must complete at least 80 hours of relevant work experience before graduating.

Specialisations

As part of the course, you can choose to study a specialisation to gain fundamental knowledge in a particular area that aligns with interior architecture. Specialisations include:

- Animation and Game Design
- Architecture
- Construction Management
- Design Thinking and Visual Communication
- Digital Design
- Graphic Design
- Photography
- Principles of Planning
- Urban Design and Planning.

Honours

This course is a four-year embedded honours program that incorporates applied design research in the final year. This provides you a significant advantage when entering the workforce as the demand for research-informed design is increasing.

You also have the option to exit the course after three years, before the final year. If you choose this option, you will exit with a Bachelor of Applied Science (Interior Design).

Professional recognition

This degree is recognised by the International Federation of Interior Architects/Designers. Students and graduates are eligible for membership to the Design Institute of Australia.

Career information

Careers

- Interior designer/architect
- Furniture and lighting designer
- Heritage and conservation specialist
- Indoor comfort consultant
- Event and exhibition designer
- Designer of immersive environments
- Colour consultant
- Design stylist
- Design writer.

Industries

- Interior design and architecture
- Building and construction
- Furniture and furnishing
- Lighting
- Arts and culture
- Publishing.

“Electives such as Planning Graphics and Design, in addition to the Sustainability Challenge and Start-Up Business Planning, have been eye opening and inspired new aspirations for my future career path. This included learning about sustainability in practice and how my interior design background can enable me to move into the planning, architecture and design realms.”

Zoe Thomas

Bachelor of Applied Science (Interior Architecture)

Urban and Regional Planning

Improve the ways cities and regions respond to current and future challenges.

DEGREE

Bachelor of Urban and Regional Planning

GUARANTEED ATAR

70

MINIMUM ATAR

70

PREREQUISITES

None

DESIRABLE

None

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

003903C

LEARN MORE

curtin.edu/bach-urplan

Overview

In this course you will learn how to balance public and private interests to improve the quality of life for everyone. You'll help to develop a sustainable future for communities by learning the knowledge and skills that underpin innovative planning practices.

You'll learn to consider a range of competing social, economic, environmental, legal and political dimensions to formulate strategies for sustainable land use and development. You'll then implement those strategies through urban management and development control processes.

Each semester you can undertake fieldwork in planning projects that will help you learn core industry skills. Projects may be undertaken with Curtin's industry partners (for example, the Department of Biodiversity, Conservation and Attractions; City of Bayswater; and Public Transport Authority) – opportunities that can provide valuable linkages with future employers.

You may also be interested in overseas internships, fieldwork units and study tours – and explore how to apply your planning skills in various global and cultural contexts.

You can expect to graduate with knowledge and skills relating to land-use planning; design, economics and law; professional communication; and ethical and professional practices.

Course structure

You will study core units and specialise in one of the following:

- Environmental Planning
- Graphics
- International Development
- Landscape and Natural Resource Management
- Social Inclusion and Equity.

Professional recognition

This course is fully accredited with the Planning Institute of Australia.

Career information

Careers

- Planner
- Urban designer
- Developer
- Government project and policy officer
- Urban planning and development consultant.

Industries

- Community development and engagement
- Environmental planning
- Transport planning
- Sustainable development
- Land-use planning
- Regional and rural planning
- Planning law
- Urban design.



“As part of my degree, I had the opportunity to do work experience at Hames Sharley for three months, which turned into casual employment for one year. When I was there, I was assisting the planning team with their projects – writing reports, taking photos and mapping data. It helped significantly to understand the real-life world of planning and how an office works and functions.”

Reuben Black

Bachelor of Arts (Urban and Regional Planning)

Arts, culture and creative industries



TRENDS TO WATCH

- Designing for hyper-reality
- Compostable packaging
- Innovative sculpture
- Metaverse art
- NFTs

If you're ready to make your mark on the world, these courses develop your creativity, encourage you to explore new technologies and apply critical thinking to real industry situations.

The courses are flexible, so you can follow your interests and create a unique, tailored program from a variety of disciplines.

Courses

Arts

- Anthropology and Sociology
- Chinese
- Creative Writing
- Digital and Social Media
- English and Cultural Studies
- History
- International Relations
- Japanese
- Journalism
- Korean Studies
- Professional Writing and Publishing
- Security and Strategic Studies

Communications

Creative Arts

- Fine Art
- Screen Arts
- Theatre Arts

Design

- Advertising and Design
- Animation and Game Design
- Design Innovation and Fabrication
- Digital Experience and Interaction Design
- Fashion Design
- Graphic Design
- Photography

See also

[Geography \(page 29\)](#)

Arts

Ideal for imaginative individuals, these courses develop your creativity and critical thinking.

DEGREE

Bachelor of Arts

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

Geography major: Geography ATAR
History major: Modern History ATAR or Ancient History ATAR

STAT

Accepted

PORTFOLIO ENTRY

Accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

068750M

LEARN MORE

curtin.edu/bach-arts

Overview

The Bachelor of Arts is a flexible degree where you can tailor your studies to your creative passions and career goals.

Our majors combine theoretical study and practical, industry-relevant content, so you graduate confident and ready to launch your career.

Build your degree

Build your own degree by choosing your preferred Arts major, then complete your degree structure by choosing from one of four study options.

This enables you to study multiple disciplines of your own choosing, providing you with a tailored degree that supports your unique career interests.

Step 1: Choose your major

Select an area that inspires you:

- Anthropology and Sociology
- Chinese
- Creative Writing
- Digital and Social Media
- English and Cultural Studies
- Geography
- History
- International Relations
- Japanese
- Journalism
- Korean Studies
- Professional Writing and Publishing
- Security and Strategic Studies.

Step 2: Complete your degree structure

This step usually happens after you accept Curtin's offer for your chosen major. Each of the options outlined below are subject to availability.

Option 1: A second major

With this option you benefit from studying two disciplines in equal depth and graduating with a double major. You may choose a second Arts major or one of the Bachelor of Creative Arts or Bachelor of Commerce majors below:

- Business Law
- Economics
- Finance
- Fine Art
- Human Resource Management
- International Business
- Logistics and Supply Chain Management
- Management
- Marketing
- Property Investment and Development
- Screen Arts
- Theatre Arts
- Tourism and Hospitality.

Option 2: Two specialisations

You may choose two specialisations from any of Curtin's study areas to complement your major. Examples include Chinese, Digital Design, Human Rights, Journalism and Web Media.

Option 3: A specialisation and electives

You may choose one specialisation to gain expertise in a second field, and then choose four elective units to complete the structure of your degree.

Option 4: Electives

You may choose eight elective units from any of Curtin's study areas, provided you meet the unit prerequisites.

Anthropology and Sociology

Understand what it means to be human and how societies function.

DEGREE

Bachelor of Arts (Anthropology and Sociology)

LEARN MORE

curtin.edu/bach-antso

Overview

In our world of increasing globalisation and cultural shifts, many employers need the expertise of those with a deeper understanding of human behaviours.

Anthropology is the study of what it means to be human through the lens of cultural diversity. Sociology examines how human actions are shaped by social groups and wider economic, political and social pressures. Both disciplines explore the comparative study of human societies in all their historical and contemporary visions.

This major draws on the strengths of the two interlinked fields. You will focus on local and global contexts to explore how cultural practices, institutions, social groups and everyday lives are being transformed within the context of globalised communication, economic, political and environmental change.

You'll study contemporary issues related to identity, family life, gender relations, language use, sustainability and development, social justice and human rights. You will also develop the conceptual skills to respond to these local and global changes, and learn how to do research in the social sciences.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Anthropologist
- Sociologist
- Heritage specialist.

Industries

- Allied health
- Consultancy
- Education
- Heritage
- IT
- Journalism
- Government
- Media and creative arts
- Public relations
- Urban planning.

Chinese

Chinese is the world's most spoken first language. Classes cater for beginners through to native speakers.

DEGREE

Bachelor of Arts (Chinese)

LEARN MORE

curtin.edu/bach-chnse

Overview

Spoken by 1.3 billion people, Chinese is the world's most spoken first language. China also has one of the world's most vibrant economies, and is a major trade partner of Australia.

With Asia's continuing social and economic growth, an understanding of Chinese language and culture is increasingly important in global engagement.

This major will provide you with the knowledge and skills required for a diverse international career.

You will gain a high level of literacy in Chinese – listening, speaking, reading and writing – and a deep understanding of Chinese culture and society.

This major is suitable for all students (previous study of Chinese is not required). Advanced classes are provided for students who have studied Chinese previously.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Research officer
- Foreign affairs and trade officer
- Interpreter/translator
- Tourism information officer/tour guide
- Welfare worker
- Teacher – English as a Second Language.

Industries

- Education
- Foreign affairs and trade
- Global business
- Government/public service
- International relations
- Media
- Mining and minerals production
- Public service
- Tourism.

Creative Writing

Develop your writing skills in fiction, poetry, and experimental and emerging genres.

DEGREE

Bachelor of Arts (Creative Writing)

LEARN MORE

curtin.edu/bach-crwri

Overview

Do you enjoy expressing your creative side through writing? Are you an aspiring author or poet? The standout feature of a creative writing career is the ability to contribute to and influence culture through an understanding of writing conventions and literary techniques.

In this major you'll gather the knowledge and techniques that writers need in the age of digital communication and entertainment. You'll develop skills across various writing styles, including fiction, poetry and experimental and emerging genres.

You'll benefit from the advice of Curtin's experienced tutors (many of whom are acclaimed authors) and through critical engagement with your creative peer group.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Copywriter/writer
- Publisher
- Editor.

Industries

- Publishing
- Advertising
- Creative arts.

Digital and Social Media

Explore the human side of the internet and graduate ready for roles in digital and social media strategy.

DEGREE

Bachelor of Arts (Digital and Social Media)

LEARN MORE

curtin.edu/bach-netcm

Overview

This course explores the social, cultural and political impacts of the internet and digital and social media platforms. You will learn the fundamentals of online communications: how people network, create, collaborate and share information through digital and social media platforms, for a range of different purposes and career paths.

You'll build practical and advanced skills in creating, maintaining and managing online communications across web media, publishing and presence, and develop expertise in online collaboration and community management.

You'll learn how to effectively mobilise digital and social media to promote products, causes and interests. You'll understand how digital and social media are changing political systems and reshaping cultures, societies and economies, and how you can use digital and social media to make the world a better place.

You'll graduate career-ready for diverse roles in digital and social media and strategy, content and policy.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Online content creator
- Web designer/developer
- Social media coordinator
- Web communications manager
- Digital producer/strategist
- Data business analyst
- Policymaker.

Industries

- Media and communications
- Advertising and marketing
- Research and policy
- Non-profit and community sector.

English and Cultural Studies

Explore the power of culture and language and examine how societies operate in the past, present and future.

DEGREE

Bachelor of Arts (English and Cultural Studies)

LEARN MORE

curtin.edu/bach-engcs

Overview

English and Cultural Studies explores how meanings and values are circulated in society through textual forms, cultural conventions and social practices.

If you are interested in cultural texts and social issues; and developing your creative and critical thinking, research and writing skills, this course is for you.

You'll critically analyse contemporary texts, including literature, film, digital and social media, to understand how they encode and reflect cultural traditions.

You'll gain a thorough understanding of how society came to be the way it is today, and how to foster social change for the better.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Arts administrator
- Public relations officer
- Journalist
- Copywriter/writer
- Conservator
- Researcher.

Industries

- Media and communications
- Education
- Government.

Geography

DEGREE

Bachelor of Arts (Geography)

See page 29.



History

Investigate how the modern world emerged and the forces that are likely to shape the future.

DEGREE

Bachelor of Arts (History)

LEARN MORE

curtin.edu/bach-histr

Overview

By studying history, you will gain an understanding of how societies experienced the past and how this shapes the world we live in today.

By studying Australian and international history, you'll learn about the forces that have influenced the modern world, including nationalism, democracy, conflict and war, and gender and sexuality.

In this course you'll have the opportunity to study and apply various approaches to researching and writing history.

History graduates contribute to addressing a wide range of society's most complex issues. Studying history develops your skills to identify and critically interpret evidence and enables you to explain the causes and consequences of political, environmental and social change. These skills are essential for a range of careers.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Historian
- Research officer
- Archivist
- Policy advisor
- Heritage consultant
- Data manager
- Museum curator
- Teacher (requires postgraduate study).

Industries

- Non-government organisations
- Local, state and federal government
- Defence and security
- Environmental and mining industries
- Media, arts and creative industries
- Education
- Tourism
- Consulting.

International Relations

Study the art of diplomacy and policy-making, and explore contemporary global issues.

DEGREE

Bachelor of Arts (International Relations)

LEARN MORE

curtin.edu/bach-intrl

Overview

International relations is a dynamic, multidisciplinary field that investigates the diplomatic, normative and economic relationships between different political bodies.

In this major you will explore contemporary global issues through various analytical frameworks of political theory, international relations theory, foreign policy, strategic studies and political history. You'll gain a comprehensive understanding of the actors, institutions, and processes of international politics and organisations.

You'll study the art of diplomacy and policymaking, geopolitical change, and national and regional security in military, political and geo-economic contexts.

You'll explore key political and regional issues impacting Australia – with an emphasis on the Indo-Pacific region – and examine statecraft, international trade, environmental change and emerging technologies.

You'll also gain skills in critical analysis, problem-solving, and written and oral communication, which underpin influential careers in international relations.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Diplomat
- Intelligence analyst
- Cybersecurity analyst
- Signals analyst
- Government agent
- Journalist
- Thinktank researcher
- United Nations political affairs officer
- Foreign-policy maker.

Industries

- Diplomacy
- International trade
- Intelligence
- Defence and military
- Law enforcement
- International aid and development
- International law.

Japanese

Learn to speak Japanese – a fascinating language spoken by 135 million people worldwide. Classes range from beginners to advanced.

DEGREE

Bachelor of Arts (Japanese)

LEARN MORE

curtin.edu/bach-japan

Overview

Japanese is a fascinating language that comprises several written systems and is spoken by 135 million people worldwide.

Japan is one of Australia's top three trade partners and a gateway to Asian nations that are rapidly changing and rich with opportunities.

In this major you will gain a high level of literacy in Japanese and an advanced understanding of Japanese culture.

Prior study of Japanese is not required, and advanced classes are provided for students who have studied the language previously. The teaching methods that are applied to both spoken and written language use the latest technology and cultural awareness activities.

You'll graduate ready to explore career opportunities in Japan and bilingual roles in Australia and internationally.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Interpreter/translator
- Trade measurement officer
- Hotel/motel manager
- Tourism officer
- Flight attendant.

Industries

- International trade
- Diplomacy
- Banking and finance
- Foreign affairs and trade
- Mining and minerals production
- Government/public service
- International relations
- International media
- Education
- Tourism and hospitality.

Journalism

Use your creative flair and investigative skills to create content for radio, television and online platforms.

DEGREE

Bachelor of Arts (Journalism)

LEARN MORE

curtin.edu/bach-journ

Overview

Curtin has a reputation for producing highly skilled journalists able to research, investigate and report on topics across mainstream and independent media platforms.

In this major you will learn to research and prepare news, feature and other content for radio, video and online platforms.

You'll learn theory and practical skills from staff with strong industry experience and connections, and use industry-standard media facilities and platforms. These include our new media production studio, Curtin FM radio and the student online news site, *Western Independent*.

You may also complete a professional placement unit, which provides valuable opportunities to undertake work experience with potential employers.

If you're interested in studying additional communications fields such as web media, marketing or graphic communication, consider the Bachelor of Communications.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Journalist (online, video, radio)
- Media presenter
- Communications officer
- Media relations officer
- Digital media officer.

Industries

- Media
- Government and corporate communications
- Public relations.



Korean Studies

Gain a strong understanding of Korean culture and language, to expand your career opportunities through intercultural literacy and the skills for global engagement.

DEGREE

Bachelor of Arts (Korean Studies)

LEARN MORE

curtin.edu/bach-korea

Overview

Worldwide, Korean is the fastest-growing language among non-native speakers, and with the global popularity of K-pop and K-dramas, the interest in Korean culture is no surprise. In Australia, over the past decade there's been increasing awareness of Korean studies as a language/culture-based studies area, and Korea–Australia relations are growing in economic, political and intercultural importance. As a result, there is a growing demand for graduates in Korean studies.

In this course you'll explore Korean society, culture, history, politics and international relations and gain strong competency in the Korean language. You'll also delve into some of the most intriguing societal and cultural issues of the Korean peninsula, ranging from South Korea–North Korea relations to the success of Hallyu, which refers to the rising wave of popularity of South Korean culture.

The course is also designed to give you a transformative learning experience so that you can work and engage comfortably in diverse cultural environments – an attribute that is increasingly vital as cultures and industries become more globally entwined. Importantly, the language learning incorporates in-class activities that have a strong focus on active learning and developing communication skills in real-world contexts.

To study this major you are not expected to have prior knowledge of the Korean language or any other Asian language.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Communications/marketing/media consultant
- Diplomat/foreign policy advisor
- Language specialist
- Education professional
- Policy consultant/researcher
- Travel and tourism business development manager

Industries

- Global business
- Cultural enterprise
- Cultural development
- Energy
- International relations
- International trade
- Non-government organisations (NGOs)
- Journalism
- Public service.

Professional Writing and Publishing

Learn how to research, write, edit and publish a range of material, to prepare for a career in professional communications.

DEGREE

Bachelor of Arts (Professional Writing and Publishing)

LEARN MORE

curtin.edu/bach-prwp

Overview

Employers across all sectors need people who can research, write, edit and publish a range of material.

In this major you will develop your skills and knowledge in many genres and styles of writing and publishing practices, while exploring your creativity.

You'll learn to produce and edit feature articles, speeches, reports, discussion papers, website content, creative nonfiction, media releases and other forms of content for the workplace. You'll also learn about copyright, censorship, plagiarism and the ethics of writing in the public domain.

In your final semester, you may have the opportunity to undertake a professional placement with an industry employer.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Copywriter
- Editor
- Publisher
- Media/communications advisor
- Writer
- Blogger.

Industries

- Media
- Corporate communications
- Publishing
- Local government and public service.

Security and Strategic Studies

Learn the art of strategy and leadership, and understand present and future threats.

DEGREE

Bachelor of Arts (Security and Strategic Studies)

LEARN MORE

curtin.edu/bach-sss

Overview

National security and defence has become one of the most critical factors of everyday life.

Security and Strategic Studies is a timely, in-demand and highly relevant field that investigates and explains security challenges associated with:

- traditional threats (military, security)
- asymmetric threats (terrorism and insurgency, and organised crime)
- other risk factors such as energy security and climate change.

In this course, you'll become a strategic thinker and leader, who understands major dilemmas that profoundly impact national and international sustainability, prosperity and sovereignty. You'll follow an exciting curriculum where you'll learn contemporary strategic and defence thinking and planning, intelligence analysis, strategic leadership, ethics, policy planning and decision-making.

Topics may include the human security impact of nuclear tests conducted on the land and sea of traditional owners; and the impact and legacy of Australia's Frontier Wars.

You will also acquire skills in intelligence and critical analysis, crisis management and problem-solving, written and oral communications – all of which underpin successful careers in policy, strategy, leadership and management.

This course gives you industry-ready, practical skills. It is ideal if you are looking for a career in defence, intelligence, analysis and strategic policy or law enforcement. It is also useful for careers in business, particularly the security industry, critical infrastructure and resource sectors.

Career information

Careers

- Intelligence officer
- Business analyst
- National security analyst
- Logistics specialist
- Cryptologist.

Industries

- Defence
- Government
- Law
- Resources
- Business
- Finance
- Transport.

Communications

Gain training and professional skills for traditional and emerging media and communication careers.

DEGREE

Bachelor of Communications

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

None

STAT

Accepted

PORTFOLIO ENTRY

Accepted

INTAKE*

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, Dubai, Malaysia, Mauritius, Singapore

CRICOS CODE

018629D

LEARN MORE

curtin.edu/bach-mascoms

** Perth intake shown*

Overview

In this course you'll gain expertise in a variety of communications areas including journalism, digital media, screen production, public relations, marketing and graphic design.

You'll study subjects in media, design and business, gaining foundational knowledge in media and corporate communications and the scope to specialise in two fields of your choice.

You'll also develop critical thinking and practical skills, using commercial-level equipment to produce content for print, radio, film, television and online media.

In your first year you'll be introduced to the different spokes of communications and study optional units that reflect or refine your learning in specific communication areas.

In your second and third years, you'll choose two specialisations to study: one media specialisation and one design or business specialisation, or two media specialisations.

Media specialisations

- Corporate Screen Production
- Journalism
- Web Media.

Design or business specialisations

- Digital Design
- Graphic Communication
- Photography
- Marketing Foundations
- Public Relations.

Career information

Careers

- Public relations officer
- Market researcher
- Media and communications consultant
- Web communications consultant
- Production coordinator
- Web developer
- Internet project manager
- Marketing manager
- Content creator
- Media liaison officer
- Filmmaker
- Photographer
- Advertising/creative advertising specialist
- Cinematographer
- Internet analyst
- Website manager.

Industries

- Media
- Marketing
- Public relations
- Advertising
- Film and television
- Radio broadcasting.

Creative Arts

Ideal for imaginative individuals, these courses develop your creativity and critical thinking.

DEGREE

Bachelor of Creative Arts

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

Theatre Arts major: Drama ATAR

STAT

Accepted

PORTFOLIO ENTRY

Accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

0100633

LEARN MORE

curtin.edu/bach-crarts

Overview

If you're passionate about pursuing a career in the creative industries, this course will provide you with the skills and experience you need to take your career anywhere in the world.

You'll gain a broad-based, contemporary understanding of theory and practice in your chosen major, learning from discipline experts and industry professionals who share their innovative, passionate and contemporary knowledge of the creative arts.

You'll also gain first-hand experience working with industry-standard equipment in our Media Production Studio, Hayman Theatre and the Design and Art precinct studios, labs and galleries.

With professional internships available and opportunities to exhibit, perform and screen works to the public, you'll be immersed in the creative sector well before you graduate.

Build your degree

Step 1: Choose your major

By focusing on creative arts as a practice and discipline, you'll balance creativity and practicality to broaden your career opportunities.

Select a major that suits your career aspirations:

- Fine Art
- Screen Arts
- Theatre Arts.

Step 2: Complete your degree structure

Complement your major with:

- a specialisation within or outside the field of creative arts, plus electives in any field, OR
- electives in any field.

Fine Art

Pursue a creative career and contribute to the artistic, and cultural needs of contemporary society.

DEGREE

Bachelor of Creative Arts (Fine Art)

LEARN MORE

curtin.edu/bach-finart

Overview

Professional artists are creative people who contribute to the artistic, aesthetic and social needs of contemporary society.

This major is designed for those who wish to be professional artists or pursue a career in the creative industries.

You will focus on various disciplines, including painting, print media, sculpture, drawing, installation and new media.

In the first two years of your course you'll engage in studio-based activities, focusing on painting, print media, sculpture, drawing, installation, new media and emerging disciplines.

In your final year you'll undertake self-directed projects, culminating in the opportunity to present your artworks at the annual graduate show.

You'll also benefit from our artist-in-residence program. Each semester Curtin appoints a new artist-in-residence, so you can access the diversity of professional expertise.

Career information

Careers

- Artist
- Artisan/craftsperson
- Arts administrator
- Gallery professional
- Curator.

Industries

- Arts
- Creative Arts
- Community Arts
- Public Art
- Fashion.

Screen Arts

Combine production skills, creativity and theory to create diverse and innovative screen projects.

DEGREE

Bachelor of Creative Arts (Screen Arts)

LEARN MORE

curtin.edu/bach-scrar

Overview

This major prepares you for comprehensive opportunities in the expanding screen-based media industry.

Throughout your studies you'll be able to develop and enhance your passion for creative media production and storytelling – skills that are sought after in many fields.

You'll develop practical and analytical skills while developing an understanding of a growing multiplatform industry. You'll learn to apply screen theories, understand the importance of cinema history and how screen communication informs, entertains and engages audiences – all of which will help you in creating your own works in the realms of factual events and drama.

You'll develop technical skills in areas such as production and emerging types of contemporary digital post-production (such as virtual backgrounds and visual effects), using Curtin's advanced production facilities to develop the technical and practical skills of an effective visual storyteller. These facilities include:

- Western Australia's largest working television studio in a tertiary setting
- a suite of high-definition cameras
- sound recording, lighting and grips equipment
- editing, grading and audio postproduction labs.

In your final year you'll write, direct or produce a major screen production to industry standard.

If you choose to study Screen Arts as a single major, you're encouraged to choose elective units from within the discipline, to enhance your understanding and career opportunities.

Double degree

You can study this course as part of the Arts and Commerce double degree. See page 121 for double degree combinations.

Career information

Careers

- Film/TV/video director
- Production assistant/producer
- Camera operator/director of photography
- Sound recordist/designer
- Picture editor
- Multi-platform developer
- Post-production producer
- Script writer
- Screen critic/curator.

Industries

- Film and television
- Advertising
- Marketing
- Tourism
- Events.

Theatre Arts

Are you a budding actor or director? This course prepares you for a bright future in theatre arts.

DEGREE

Bachelor of Creative Arts (Theatre Arts)

LEARN MORE

curtin.edu/bach-thtra

Overview

This major equips you with the creative practice and the theory you need to perform both on and off the stage. It is a comprehensive training ground for passionate theatre artists.

At Curtin you will benefit from studying in the longest-established theatre arts course in Western Australia. You'll develop the full range of fundamental skills, theoretical understanding, and practical experience of theatre and performance practice.

These include:

- acting
- directing
- writing and devising
- dramaturgy
- critical analysis
- stage management
- theatre production.

You'll learn from artists-in-residence who have professional production experience, and you could apply your skills in the Hayman Theatre Company's on-campus public production program.

You'll have the opportunity to work on five major productions and up to 25 student directed productions each year. Staged on campus and in venues around Perth, these productions range from classical drama to contemporary works.

Double degree

You can study this course as part of the Arts and Commerce double degree. See page 121 for double degree combinations.

Career information

Careers

- Actor
- Stage/film/TV director
- Performing arts technician
- Playwright
- Production crew
- Stage manager.

Industries

- Theatre and screen
- Screen advertising.



“I chose to study at Curtin because it's known for the quality of its fine art degree. The access to industry connections and the Curtin network convinced me it was where I wanted to study. I specifically chose disciplines that didn't tie me down to a rigid career path – I want the flexibility to change jobs if necessary but also to be equipped for the arts industry.”

Charlotte Eden

Bachelor of Arts (Anthropology and Sociology and Fine Art)

Design

Learn to design through project-based activities using industry-standard equipment, technologies and media platforms.

DEGREE

Bachelor of Design

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

Design ATAR

STAT

Accepted

PORTFOLIO ENTRY

Accepted

INTAKE*

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, Mauritius

CRICOS CODE

098137F

LEARN MORE

curtin.edu/bach-design

* Perth intake shown

Overview

If design is your passion, this flexible degree offers a number of exciting majors that will develop your practical skills in a global context, so you can take your career anywhere in the world.

Throughout the three-year program you will learn through project-based activities and have the opportunity to work together with students from other disciplines, mirroring a real industry environment.

You'll use industry-standard equipment and software, and graduate with a comprehensive portfolio that demonstrates your skills to future employers.

Build your degree

Step 1: Choose a major

Select an area that inspires you:

- Advertising and Design
- Animation and Game Design
- Design Innovation and Fabrication
- Digital Experience and Interaction Design
- Fashion Design
- Graphic Design
- Photography.

Step 2: Choose a Design specialisation*

- Animation and Game Design
- Creative Advertising Design
- Digital Design
- Fashion Design
- Graphic Design
- Illustration
- Photography.

* You cannot study the same discipline as your major.

Step 3: Complete your degree structure

Choose one of the three options below to complete your degree structure.

Option 1: Choose a second design specialisation

Choose a second Design specialisation from the list in step 2.

Option 2: Choose a non-Design specialisation

Choose a specialisation in another area to gain expertise in a second field. Your choice of specialisation is subject to unit availability.

Option 3: Choose four electives

Choose four elective units in any area of interest, provided you meet the prerequisites.

Career information

Careers

- Graphic designer
- Fashion designer
- Electronic game developer
- Creative director
- Illustrator
- Photojournalist
- Photographer
- Design educator
- Entrepreneur
- Production manager.

Advertising and Design

Drive the development of creative advertising and capture consumers' imagination and attention with your designs.

DEGREE

Bachelor of Design (Advertising and Design)

LEARN MORE

curtin.edu/bach-advert

Overview

Effective advertising is persuasive, targeted, clever and original. When you study this course, you'll not only learn how to bring creative ideas to life, you'll also learn about the business processes behind the scenes, such as planning, consumer research and managing campaigns.

You'll hone your skills in idea generation, art direction, design, creative strategy and critical thinking, and learn to use advertising and design effectively to drive business growth and development. You'll also have the choice to expand your knowledge and skills in either brand management or copywriting.

The course is taught through authentic learning experiences that reflect real-world industry standards and practice, helping you begin your exciting career and easily transition to the workforce after you graduate.

We also encourage students to enter student competitions run by industry bodies such as Design and Art Direction (D&AD), the Advertising Council of Australia and Perth Advertising and Design Club.

Professional recognition

Professional membership is available with the Design Institute of Australia and Perth Advertising and Design Club.

Career information

Careers

- Creative director
- Art director
- Copywriter
- Advertising and marketing coordinator
- Advertising campaign manager
- Account manager
- Account director.

Industries

- Advertising
- Marketing
- Media and communications
- Publishing.

Animation and Game Design

Gain professional animation and game design experience using industry-standard software and simulated environments.

DEGREE

Bachelor of Design (Animation and Game Design)

LEARN MORE

curtin.edu/bach-anigd

Overview

Animators, visual effects artists and video game designers are experts in computer-generated imagery, designing everything from settings and characters to immersive player-driven stories.

In this major you will specialise in the exciting area of animation and game design.

You will explore the latest industry trends and technologies to create compelling experiences to engage your audience.

You'll learn and apply the fundamentals of animation and game design through:

- analysing game design content and the latest animated experiences
- investigating various industry approaches and techniques for 3D modelling and animation
- exploring the design of narrative structures and immersive experiences
- developing creative and compelling visuals utilising 3D animation and visual effects, motion graphics and game related technologies.

You'll also gain experience using up-to-date industry standard software in simulated studio environments.

This major has strong connections to local, national and international animation and digital game industries.

Professional recognition

Professional membership is available with the Design Institute of Australia.

Career information

Careers

- 3D artist
- Character designer
- Visual effects artist
- Broadcast designer
- Game designer
- Art/creative director
- Animator
- Motion graphic designer.

Industries

- Animation and motion graphics
- Digital gaming
- Film and television
- Advertising
- Media and communications.

Design Innovation and Fabrication

Design and produce prototypes of the things that people want, from mobile phones and furniture to children's toys and self-driving cars.

DEGREE

Bachelor of Design (Design Innovation and Fabrication)

LEARN MORE

curtin.edu/bach-innfab

Overview

The rapid emergence and expansion of smart products is increasing the demand for a new wave of designers and product manufacturers.

In this major, you will develop the creative and technical skills needed to transform your ideas into cutting-edge creations, and learn to design concepts through user engagement and collaboration.

You'll study your craft in our design studio and progress your digital modelling and fabrication skills in our new School of Design and Built Environment's makerspace, where your design can come to life.

The course offers industry expertise and practical, hands-on learning, and you'll be encouraged to exhibit an innovative approach to your work.

When you graduate, you will be well-placed to work in emerging fields of contemporary industrial design such as inclusive design, the internet of things, smart living applications and broader smart product design.

Professional recognition

Professional membership is available with the Design Institute of Australia.

Career information

Careers

- Industrial designer
- Furniture designer
- Project technician
- Design consultant
- 3D digital modeller and fabricator
- Biomedical technology designer
- Usability expert.

Industries

- Consumer appliances and electronics
- Manufacturing
- Textiles
- Biomedical technology
- Automotive.





Digital Experience and Interaction Design

Create accessible, engaging and intuitive digital experiences for an online world.

DEGREE

Bachelor of Design (Digital Experience and Interaction Design)

LEARN MORE

curtin.edu/bach-digde

Overview

Digital experience design is at the heart of many of our daily interactions with modern technology. Our buying habits, social lives, work and health are increasingly informed and shaped by apps and websites, as well as smart assistants and wearable tech.

Digital experience designers are future-facing – they combine traditional graphic design and creative skills with specialist software skills to develop user-centred interactive digital products.

In this major you will focus on designing digital experiences that look and feel great for users, while also considering and anticipating their needs. You will learn about aesthetics, design principles, usability and user psychology, and leverage digital technologies to create innovative designs in response to real-world problems.

The coursework combines theoretical fundamentals with hands-on, practical learning, and focuses on emergent technologies and industry demands. You will also develop key workplace skills, such as communication and collaboration, in addition to creative and technical abilities.

“I enjoyed learning about the fundamentals of UX/UI in my first year as well as tid-bits of animation (which is my specialisation). I also love how hands-on the course is and connecting with the like-minded individuals also studying this degree.”

Emerald Lay

Bachelor of Design (Digital Experience and Interaction Design)

Professional recognition

Student and professional membership is available with the Design Institute of Australia.

Career information

Careers

- UX designer
- App and web designer/developer
- Multimedia designer.

Industries

- Advertising/Marketing
- Media and communications
- Publishing.

Fashion Design

Weave together art, culture and your passion for design to produce your own contemporary garment line.

DEGREE

Bachelor of Design (Fashion Design)

LEARN MORE

curtin.edu/bach-fashion

Overview

This major suits creative individuals who have a keen interest in fashion and a passion for contemporary design.

You will learn the foundations in creative thinking and the relationship between garment and body. You'll use theoretical and contextual frameworks to understand the cultural significance and practice of fashion design and global trends, and expand your knowledge beyond the history of Eurocentric fashion to explore non-western pattern-cutting, to reflect global changes in society and culture. You'll also explore innovative design practices that respond to local and global issues faced by the fashion industry.

You'll learn the principles of design and creative studio practice. At our advanced fashion studio – equipped with industrial machinery, specialist equipment and digital design and digital pattern-cutting software – you'll also develop skills in fabric manipulation and construction, design, pattern making, styling and fashion illustration.

This major encourages you to take an innovative approach to design, achieve technical competence and gain industry experience. You'll graduate with the skills, knowledge and contacts to prepare you for a range of career opportunities within the fashion industry.

Graduating fashion students may also present their work to industry professionals at an end-of-year fashion show.

Professional recognition

Professional membership is available with the Design Institute of Australia.

Career information

Careers

- Fashion designer
- Fashion buyer
- Theatre costume-maker and designer
- Fashion stylist
- Trend forecaster.

Industries

- Fashion
- Advertising
- Publishing.

Graphic Design

Learn to communicate ideas visually across a range of media to persuade, inform and educate.

DEGREE

Bachelor of Design (Graphic Design)

LEARN MORE

curtin.edu/bach-grpds

Overview

Graphic designers visually communicate across a range of media to persuade, inform and educate audiences online, in print and within a wider environment.

In this major you'll develop a deeper understanding of graphic design and its distinct specialist applications, including user experience design, design thinking, branding, data visualisation, editorial, information design, interaction design, way-finding, packaging design, service and experiential design.

You'll learn how to solve complex communication problems through the exploration and application of design theory and practice, whilst developing skills across a range of industry applications.

The Graphic Design major responds to rapid changes in the design and commercial industries, as well as cultural and sociotechnical shifts in retail and media consumption behaviours.

Professional recognition

Graduates may convert student memberships of professional design organisations, such as Australian Graphic Design Association, Design Institute of Australia and Perth Advertising and Design Club, into full professional memberships following qualification and professional experience.

Career information

Careers

- Graphic designer
- Design strategist
- Art director
- Brand manager
- Creative director
- Creative consultant
- Production manager
- Illustrator
- Entrepreneur.

Industries

- Advertising
- Marketing
- Media and communications
- Publishing.

Photography

Turn your interest in photography into a career, learning photographic techniques alongside professional practices.

DEGREE

Bachelor of Design (Photography)

LEARN MORE

curtin.edu/bach-photo

Overview

This major gives you the opportunity to develop your creative skills and explore pathways to careers in our ever-increasing visual world.

The course examines the interchanges between design, editorial and fine art photography. This approach will enable you to develop your own practice to a standard of excellence across multiple platforms.

You'll study histories and theories of photography and explore experimental approaches to the medium through lectures, tutorials, studio workshops and gallery visits.

Throughout your course you'll learn through project-based activities and collaboration with students from other disciplines – mirroring a true industry environment.

As a Curtin student, you'll also benefit from the University's links with industry and major cultural institutions. The range of work-integrated learning opportunities available means that you can expect to graduate ready for successful photographic practice in diverse industries.

Career information

Careers

- Photographic artist/artist
- Photojournalist
- Commercial photographer
- Creative director.

Industries

- Fashion
- Advertising and marketing
- Media and communications
- Events.

Business, management and law



TRENDS TO WATCH

- Supply chain security
- Immersive customer experiences
- Remote and hybrid work
- Social commerce
- Business sustainability

Through our extensive industry networks, you'll get exposure to business professionals and projects that prepare you for future employment.

Curtin Business School ranks in the top 10 business schools in Australia. It stands at the forefront of contemporary debate, analysis and strategic forecasting and is recognised as an elite global business school through its accreditation by AACSB.

Curtin Law School offers professional qualifications that provide a pathway to admission to the legal profession in Western Australia.

Courses

Actuarial Science

Business Administration

Commerce

- Accounting
- Accounting and Audit Analytics
- Business Information Systems
- Business Law
- Economics
- Finance
- Finance and Financial Planning
- Human Resource Management
- International Business
- Logistics and Supply Chain Management
- Management
- Marketing
- Property Investment and Development
- Property Development and Valuation Extension
- Taxation
- Tourism and Hospitality

Financial Mathematics (Advanced)

Innovation

Law

See also

[Agribusiness \(page 25\)](#)

[Industrial and Systems Engineering \(page 78\)](#)

[International Relations \(page 40\)](#)



Actuarial Science

Become an expert in predicting the effects of long-term risk in financial decisions and planning.

DEGREE

Bachelor of Science (Actuarial Science)

GUARANTEED ATAR

92

PREREQUISITES

Mathematics Methods ATAR

DESIRABLE

Mathematics Specialist ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

038785D

LEARN MORE

curtin.edu/bach-actuar

Overview

Actuaries analyse various data to predict and assess the long-term risks involved in financial planning and decisions. They also apply their expertise to other areas – such as assessing the timing and location of extreme weather events, to help predict risks and associated costs for investments or insurance.

In this course you will gain the knowledge and skills in mathematics, statistics, data analytics, demographics, finance and economics to work as a financial analyst in organisations that deal with risk – such as banks and financial institutions, insurance companies and government agencies.

You'll learn the mathematical and statistical techniques to model industrial and commercial processes against a financial and economic background. You'll also learn to identify the risk factors and determine the price and cost of those risks.

In your third year, your studies will focus on either actuarial science or actuarial and applied statistics.

Actuarial Science

This area is recommended for students who intend to complete further studies and qualify as an actuary. It gives you the opportunity to gain exemptions from the six subjects comprising the Foundation Program of the Actuaries Institute (Australia).

You must achieve the minimum course-weighted average mark to study Actuarial Science in third year.

Actuarial and Applied Statistics

This area is designed for students who wish to broaden their expertise in data analysis and statistics but who do not intend to work as an actuary. It does not include all subjects of the Actuaries Institute's Foundation Program.

Professional recognition

This is the only degree in Western Australia accredited by the Actuaries Institute (Australia).

Career information

Careers

- Actuary
- Business analyst
- Data scientist
- Mathematician
- Risk manager
- Statistician.

Industries

- Banking
- Education
- Financial services
- Health
- Mining, oil and gas infrastructure
- Insurance
- Public sector finance and infrastructure
- Superannuation.

Business Administration

Develop broad business expertise in marketing, finance, human resources, project management and strategic management.

DEGREE

Bachelor of Business Administration

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

None

STAT

Accepted

PORTFOLIO ENTRY

Accepted

INTAKE*

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, Dubai, Malaysia, online

CRICOS CODE

018007A

LEARN MORE

curtin.edu/bach-busadm

* Perth intake shown

Overview

This course will help you become a highly adaptive graduate. You'll be cross-skilled in various areas of business and graduate ready to work in dynamic environments and pivot to the needs of industry. You'll also be aware of global trends and prepared for employment in all sectors, with a diverse skillset that employers value.

This is a flexible course that enables you to develop a personalised plan to create a portfolio of expertise that aligns with your career goals. The course starts with your business and management core units, you will then customise your degree to suit your career aspirations by studying two business specialisations of your choice and either another business, arts, design or science specialisation, or elective units.

In your final year you'll undertake a capstone experience.

Foundation units

The course starts with a business foundation year in which you'll explore value-creation in business, learn to use financial information to make informed and responsible decisions, and develop business intelligence and analytical capabilities to interpret data in a meaningful way.

You'll then complete a suite of management foundation units aligned to global trends. You'll develop skills across marketing, finance, human resources, project management and strategic management.

Build your degree

Step 1: Choose two business specialisations

Choose two of the following specialisations to study:

- Accounting for Business Decisions
- Applied Finance
- Banking
- Business Law and Policy
- Business Project Management
- Corporate Governance
- Digital Marketing
- Employment Relations
- Event Management
- Information Management in Business
- Innovation and Entrepreneurship
- International Management
- Marketing Foundations
- Property Investment
- Public Relations
- Retail and Supply Chain
- Small Business Start-up
- Social Leadership and Ethics
- Taxation Law
- The Business of Advertising
- Tourism and Hospitality Essentials
- Workforce Management.

Step 2: Complement your business specialisations

Select one of the three options shown below.

Option 1: A third business specialisation

You can select another business specialisation to improve your international business outlook.

Option 2: An arts, design or science specialisation

You can select a specialisation from another of Curtin's study area (for example, Chinese Language, Digital Design, Environmental Planning, Journalism, Social Justice or Web Media) to help you enter a specific industry.

Option 3: Four elective units

You can choose elective units from any course offered at Curtin, provided you meet the unit prerequisites.

Step 3: Choose your capstone experience

Choose a capstone experience unit to further your practical skills and international business knowledge.

Enhancing Your Business Mind

You'll apply your entrepreneurial skills, business ideas and out-of-the-box thinking to a real business environment, improving your employability.

Business Innovation Lab

You'll use your initiative, creativity and adaptability as you work on an applied business project within a start-up environment. As part of an interdisciplinary team, you will solve a problem or advance an innovation while demonstrating your managerial judgement, professional communications and commitment to responsible business practice.

Business Internship

You'll have the opportunity to gain work experience with an external employer or work on a real industry project related to your area of study, in Australia or internationally. These projects have defined objectives, with activities a graduate in that role would be expected to complete. On an internship, you could:

- conduct research or data analysis
- scope the viability of new projects
- support the implementation of new systems
- identify market opportunities and revise marketing strategies
- assist with an upcoming event.

Note that selection for internships is a competitive process.

Interactive Study Tour

Our Interactive Study Tour offers an international study abroad experience, helping you to become an engaged global citizen. You'll engage with industry and learn how to develop strategies for addressing current and emerging global business or law problems, and develop skills that will enhance your cross-cultural awareness.

Business and Law International Experience

Complete your degree while travelling the world by studying a short course with one of Curtin's exchange partners.*

Business Study Tour

Visit regions, countries and organisations in Australia or overseas to experience different ways of doing business.

** Opportunities may vary according to academic performance and international travel restrictions.*

Career information

Careers

- Branch manager
- Business administrator
- Business consultant
- Operations manager
- Retail manager
- Sales manager
- Senior manager.

Industries

- Government
- Non-profit
- Resources and renewables.

Commerce

Reach your potential in a business career and prepare for the changing job market.

DEGREE

Bachelor of Commerce

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

None

STAT

Accepted

PORTFOLIO ENTRY

Accepted

INTAKE¹

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION²

Perth, Kalgoorlie, Dubai, Malaysia, Mauritius, Singapore, online

CRICOS CODE

013905G

LEARN MORE

curtin.edu/bach-comm

1. Perth intake shown.

2. Not all majors are offered at all locations.

Overview

This is a flexible course designed to help you reach your potential and gain in-depth knowledge and skills of one or more areas of business. You will develop decision-making and leadership skills, which are essential in a future marketplace and benefit from exposure to industry through field trips, internships, work-related tasks, guest lectures and networking events.

In your first year, you'll study business core units, select your Commerce major and choose options that complement your major.

In your final year you'll undertake a capstone experience.

Study our business core

Your course begins with business core units that will build your skills, knowledge and goals to help you progress into your major:

Analytics for Decision Making

You'll learn basic data analysis to derive essential information from numerical, textual and visual datasets. As well as understanding the legal and ethical issues related to the collection and use of data, you'll examine case study data sets from a range of business disciplines, communicate your findings to an audience and make recommendations.

Communication, Culture and Indigenous Perspectives in Business

You'll develop awareness of responsible business practices and cultural, academic and professional integrity in business. These perspectives will help you in business communications and in making business decisions.

Financial Decision Making

You'll develop the skills and knowledge needed to make informed and responsible decisions using accounting and financial information. You'll learn basic accounting and financial terminologies, how to interpret financial statements and make investment decisions.

Markets and Legal Frameworks

You'll explore how key business disciplines are connected and understand the relationship between a business enterprise and stakeholders including government, customers and the broader community. You'll also identify the laws and regulations applied to businesses, and learn how business and marketing strategies can impact society and the environment.

Strategic Career Design

You'll explore the impact of changes in the global labour market and social trends and how technological innovation will affect career opportunities and the future of work. These changes have implications for individual and organisational career management strategies, and personal and professional branding in a digitised global economy.

Build your degree

While studying your major, you can explore specialisations or compatible units to customise your degree to suit your career goals.

Step 1: Choose your primary major

You'll select your major during your first semester, to align the Bachelor of Commerce to the career you want:

- Accounting¹
- Audit Analytics^{1,2}
- Business Information Systems
- Business Information Systems Extension³
- Business Law¹
- Economics
- Finance¹
- Financial Planning²
- Human Resource Management
- International Business
- Logistics and Supply Chain Management
- Management¹
- Marketing¹
- Property Development and Valuation Extension³
- Property Investment and Development
- Taxation¹
- Tourism and Hospitality.

1. Available to study online

2. Available as part of a defined double major

3. Includes an embedded specialisation for accreditation by a professional body. Cannot be studied as part of a double major

Step 2: Complement your major

You'll select one of the following four options:

Option 1: A second major

With this option you benefit from studying two disciplines in equal depth and graduating with a double major. You can choose from a second Commerce major or one of the following areas from the Bachelor of Arts or the Bachelor of Creative Arts:

- Anthropology and Sociology
- Creative Writing
- Digital and Social Media
- Fine Art
- Geography
- History
- International Relations
- Literary and Cultural Studies
- Professional Writing and Publishing
- Theatre Arts.

Option 2: Two Business specialisations

A Business specialisation contains half the number of units as a major, allowing you to broaden your degree by studying two complementary disciplines alongside your primary major.



“I chose Curtin as it values building relationships with industry, and I knew this would be valuable not only during my course but also for my career.

“Most of my units include interacting with businesses in Western Australia and investigating how to help that business advance in their industry – we learn valuable lessons from people in the industry every day.

“I’m also the current president of the Curtin Women in Business (WIB) organisation. My involvement with WIB has helped me build industry connections and enhanced my networking, marketing, PR and events skills.”

Angela Pua

Studying Bachelor of Commerce
(Entrepreneurship and Marketing)

Option 3: A Business specialisation and a non-Business specialisation

Customise your degree by selecting a Business specialisation and a specialisation from another area such as Digital Design, Environmental Planning, Journalism, Social Justice or Web Media.

Option 4: A Business specialisation and electives

You can choose elective units from any course offered at Curtin, provided you meet the unit prerequisites.

Step 3: Choose your capstone experience

In your final year you will choose and undertake a capstone experience that will further your practical skills and international business knowledge, from the list of options below.

Enhancing Your Business Mind

You’ll apply your entrepreneurial skills, business ideas and out-of-the-box thinking to a real business environment, improving your employability.

Business Innovation Lab

You’ll use your initiative, creativity and adaptability as you work on an applied business project within a start-up environment. As part of an interdisciplinary team, you’ll solve a problem or advance an innovation while demonstrating your managerial judgement, professional communications and commitment to responsible business practice.

Business Internship

You’ll have the opportunity to gain work experience with an external employer or work on a real industry project related to your area of study, in Australia or internationally*. These projects have defined objectives with activities that a graduate in the role would be expected to complete. Note that selection for internships is a competitive process. During your internship, you could:

- conduct research or data analysis
- scope the viability of new projects
- support the implementation of new systems
- optimise marketing strategies
- assist with an upcoming event.

Interactive Study Tour

Our Interactive Study Tour offers an international study abroad experience, helping you to become an engaged global citizen. You’ll engage with industry and learn how to develop strategies for addressing current and emerging global business or law problems, and develop skills that will enhance your cross-cultural awareness.

Business and Law International Experience

Complete your degree while travelling the world by studying a short course with one of our exchange partners*.

Business Study Tour

Visit regions, countries and organisations in Australia or overseas to experience different ways of doing business*.

** Opportunities can vary according to academic performance and international travel restrictions.*

Accounting

Become a qualified accountant, capable of working in dynamic business environments around the world.

DEGREE

Bachelor of Commerce (Accounting)

LEARN MORE

curtin.edu/bach-acct

Overview

Qualified accountants are in demand around the world, meeting financial needs in dynamic business environments.

In this major you will gain a sound foundation in accounting, auditing, taxation and relevant areas of business law and financial management, and be able to apply this knowledge across a range of accounting contexts.

You'll learn how to develop and communicate information relating to the financial performance of organisations, and use your accounting knowledge to support business decision-making.

You will graduate with a qualification that is recognised internationally.

This major comprises 12 core units (due to accreditation requirements), which is more units than most other commerce majors; as such, you can only complete an Accounting major with either:

- one specialisation and two elective units OR
- six electives, OR
- a second major from Audit Analytics, Business Law, Finance or Taxation.

Professional recognition

This major is recognised by the Association of Chartered Certified Accountants and the Institute of Chartered Accountants in England and Wales.

It is accredited by Chartered Accountants Australia and New Zealand; CPA Australia; and Institute of Public Accountants.

Graduates may be eligible for admission to the ACCA Accelerate program, the CA program of the Chartered Accountants of Australia and New Zealand, and the CPA program of CPA Australia.

Career information

Careers

- Accountant
- Auditor
- Business analyst
- Chief Financial Officer
- Company secretary
- Insolvency consultant
- Internal auditor
- Tax agent
- Treasurer.

Industries

- Accounting
- Finance and investment
- Government
- Law
- Resources and renewables.

Accounting and Audit Analytics

Become a professional accountant with expertise in modelling and e-commerce.

DEGREE

Bachelor of Commerce (Accounting and Audit Analytics)

LEARN MORE

curtin.edu/bach-audit

Overview

This double major is designed for those who want to develop a professional understanding of accounting and accounting-related technologies.

In the Accounting major, you will gain a sound foundation in accounting, auditing, taxation and relevant areas of business law and financial management, and be able to apply this knowledge across a range of accounting contexts.

You'll learn how to develop and communicate information relating to the financial performance of organisations, and use your accounting knowledge to support business decision-making.

The Audit Analytics major provides comprehensive understanding of the use of technology in accounting and related areas.

You will study issues in managerial accounting, computer accounting packages, accounting modelling, data visualisation and analytics and business valuation using data.

Professional recognition

This course is accredited by the following organisations: Certified Practising Accountants Australia; Association of Chartered Certified Accountants; Chartered Accountants Australia and New Zealand; Chartered Institute of Management Accountants; Institute of Management Accountants; Institute of Public Accountants; Institute of Chartered Accountants in England and Wales.

Career information

Careers

- Accountant
- Auditor
- Business analyst
- IT auditor
- Project manager
- Tax agent
- Tax consultant
- Treasurer.

Industries

- Accounting
- Banking
- Business and management
- Finance and investment
- Government
- Law
- Resources and renewables
- Technology.

Business Information Systems

Combine business with IT, learning to analyse, implement and manage an organisation's systems and processes.

DEGREE

Bachelor of Commerce (Business Information Systems) or Bachelor of Innovation (Business Information Law)

LEARN MORE

curtin.edu/bach-binfo

Overview

Businesses rely on information systems to obtain, process and output information. They need employees who can analyse and identify any issues, and propose the best systems solution.

An information systems specialist analyses, develops, tests, implements and supports an organisation's systems and processes. Their ideas and recommendations can help achieve better outcomes through effective use of technology and information systems.

This major will help you gain employment in the business side of IT. You'll focus on how information technology is used to collect and process information in organisations, and gain in-depth knowledge of application design, systems implementation and management.

Recommended double majors

- Accounting
- Business Law
- Finance
- Human Resource Management
- Logistics and Supply Chain Management
- Management.

Career information

Business Information Systems Extension

If you wish to become a business information system professional, you should instead study the Business Information Systems Extension major. Accreditation of the extension major has been granted by the Australian Computer Society, which is a member of the Seoul Accord.

Visit curtin.edu/bach-binfoex.

Careers

- Business analyst
- IT auditor
- IT manager
- Project manager
- Systems analyst.

Industries

- Banking
- Business and management
- Government
- Resources
- Technology.

Business Law

Learn to identify and manage legal risk in business contracts, consumer law and taxation.

DEGREE

Bachelor of Commerce (Business Law) or Bachelor of Innovation (Business Information Law)

LEARN MORE

curtin.edu/buslaw

Overview

Businesses work with laws every day in entering contracts, acquiring business assets, leasing premises and hiring staff. Knowledge of business law is critical to complying with legal requirements and identifying and managing legal risk.

In this major, you'll gain a sound knowledge of the laws that govern businesses and commercial transactions. You'll learn how the law is created, changed and applied to business and government, and appreciate ethical issues in business situations.

In particular, you'll discover how the law impacts businesses, identify and manage appropriate legal risks that arise in businesses and learn how to meet relevant legal requirements.

You'll also develop significant knowledge about business law, contracts, torts, real property, company law, employment law, labour law, consumer and competition law, business intellectual property and taxation.

You can follow your interests by choosing to study units in public relations law, international business law, safety and environmental health law, and practical employment law. As a result, this major opens up a wide variety of career prospects for you, ranging from governance officer, contract and risk compliance manager to a director or company secretary.

While this major does not qualify you to practise as a lawyer, it does meet the increasing demand for graduates who have the legal knowledge and practical skills to work in corporate business or government and it may be a useful stepping-stone to further law studies, such as Curtin's Bachelor of Laws.

Recommended double majors

- Accounting
- Human Resource Management
- Management
- Marketing.

Career information

Careers

- Administrator
- Company secretary
- Compliance officer
- Contract manager
- Law clerk
- Legal administrator
- Settlement agent.

Industries

- Accounting
- Banking and finance
- Government
- Human resources
- Law
- Media and marketing
- Property
- Resources.



“I took part in an internship placement as a law clerk, assisting solicitors with day-to-day management of their cases.

“This was an eye-opening experience for me, as I got to see first-hand what it takes to be a successful legal professional. It greatly improved my self-confidence and my wonderfully supportive team empowered me to contribute my ideas.”

Ashleigh Fotios

Bachelor of Commerce (Business Law)

Economics

Learn about key economic frameworks, applications, policy issues, and how to access and interpret data.

DEGREE

Bachelor of Commerce (Economics) or Bachelor of Innovation (Economics)

LEARN MORE

curtin.edu/econs

Overview

Economists study the world around them, analyse shifts in global policy and monitor industry and global trends. They are an integral part of public and private sector decision-making.

With a focus on applied economics, this major will give you the knowledge and skills you need to analyse important real-world issues, such as unemployment, inequality, price stability and economic growth.

You will be able to use your economic knowledge to evaluate trends and patterns in consumer spending, levels of competition in different industries, business cycles and financial crises.

You'll gain a solid foundation in macroeconomics and microeconomics, as well as quantitative and qualitative skills you need to apply theory to practice.

Recommended double majors

- Business Law
- Finance
- International Business
- Management
- Marketing.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

You may be eligible for student membership of the Association of Financial Advisers and the Financial Planning Association of Australia, and associate membership of Economic Society of Australia (WA Branch) and the Women in Economics Network (WEN).

Career information

Careers

- Bank manager
- Consultant
- Corporate finance analyst
- Credit analyst
- Econometrician
- Economic analyst
- Economist
- Financial manager
- Investment banker
- Market research analyst
- Policy advisor
- Policy analyst
- Portfolio manager.

Industries

- Banking
- Brokerage
- Consultancy
- Government
- Private business
- Resources.

Finance

Gain comprehensive knowledge of financial markets and prepare to sit for CFA exams.

DEGREE

Bachelor of Commerce (Finance) or Bachelor of Innovation (Finance)

LEARN MORE

curtin.edu/bach-fince

Overview

Finance and banking professionals use analytical knowledge and skills to help clients find financial solutions, start new businesses or expand existing ones. They work in corporate finance, financial markets, managed funds and superannuation, or in retail banking and private wealth management.

The Finance major gives you a broad understanding of the structure and operations of financial markets. You'll learn about investment evaluation and how to make decisions on funding activities and disbursement of profits. You'll also examine the role of financial markets.

This major will put you in a good position to sit for the highly regarded CFA (Chartered Financial Analyst) exams, because it incorporates at least 70 per cent of the CFA Program Candidate Body of Knowledge into its curriculum.

Recommended double majors:

- Accounting
- Economics
- Financial Planning
- International Business
- Management
- Marketing
- Property Investment and Development.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

Professionally recognised by CFA Institute. High achieving students may be eligible to apply for CFA student scholarships.

Career information

Careers

- Bank manager
- Consultant
- Corporate finance analyst
- Credit analyst
- Econometrician
- Economic analyst
- Economist
- Financial manager
- Investment banker.

Industries

- Banking
- Brokerage
- Consultancy
- Government
- Private business
- Resources.

Finance and Financial Planning

Gain broad knowledge of investments, portfolio management and corporate finance in this industry accredited degree.

DEGREE

Bachelor of Commerce (Finance and Financial Planning)

LEARN MORE

curtin.edu/bach-fnpln

Overview

Financial planners help people manage their financial affairs and plan their futures. They have a deep understanding of finance, relevant sections of the law, high ethical standards and excellent people skills.

In this double major, you will gain a broad knowledge of investments required to provide financial advice.

Your learning will address subjects in areas, including financial principles, financial instruments, markets, tax law, corporate finance, portfolio management, estate planning, ethics and compliance. You will also learn about the psychology behind people's financial decisions and behaviours.

Every person entering the profession of financial planning must have completed a degree approved by FASEA, Australia's Financial Advisor Standards and Ethics Authority. Curtin's Finance and Financial Planning double major, which covers key bodies of knowledge identified by FASEA in considerable depth, was one of the first programs in Australia to get this approval.

This double major concludes with a unique 120-hour work placement capstone experience, where you will intern with one of the WA Chapter of the Financial Planning Association's member organisations.

Professional recognition

This double major is accredited by the Financial Adviser Standards and Ethics Authority.

You may be eligible for membership of the Association of Financial Advisers, CFA Institute, Economic Society of Australia (WA branch), Financial Planning Association of Australia and the Women in Finance Network. Graduates may be eligible to apply as an Affiliate Member of the Financial Services Institute of Australasia (FINSIA).

Career information

Careers

- Budget analyst
- Corporate finance analyst
- Financial manager
- Financial planner.

Industries

- Banking
- Brokerage
- Consultancy
- Government
- Private business
- Resources.



“I chose Curtin because it had an environment that promoted diversity and a sense of belonging, which gave me the opportunity to thrive on campus.

“I had a genuine passion for economics at high school, and Curtin furthered my passion for this area. My internship with a reputable mortgage broking firm was very valuable – it was during this time that I discovered my interest in financial planning, and it gave me the corporate experience that accelerated my career.

“Helping clients map out a plan that puts them on track to achieve their financial and lifestyle goals, and providing them with the clarity they need, is the most rewarding part of being an adviser.”

Brhane Mesfin

Bachelor of Commerce (Economics and Finance), Bachelor of Commerce (Financial Planning)

Human Resource Management

Learn how to maximise employee wellbeing and organisational performance.

DEGREE

Bachelor of Commerce (Human Resource Management) or Bachelor of Innovation (Human Resource Management)

LEARN MORE

curtin.edu/hrm

Overview

Human resource management (HRM) is about maximising employee and organisational performance and wellbeing. An organisation's HRM strategy helps the company meet its overarching strategic goals.

In this major, you will study recruitment and selection, performance and conflict management, training and development, remuneration, strategic human resource management and HRM metrics and analytics.

Working with our expert instructors, you'll develop the skills and competencies needed to pursue a career working as a manager in small businesses, medium and large local and multinational enterprise and not-for-profit organisations.

Recommended double majors

- Management.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

This course is professionally accredited by the Australian Human Resources Institute.

Career information

Careers

- Change management specialist
- Human resources officer
- Industrial relations officer
- Recruitment consultant
- Training and development professional
- Training officer.

Industries

- Banking and finance
- Education
- Health care
- Public relations
- Resources
- Retail.

International Business

Expand your horizons, learning to work across different cultures, markets and business practices.

DEGREE

Bachelor of Commerce (International Business) or Bachelor of Innovation (International Business)

LEARN MORE

curtin.edu/bach-intbus

Overview

Multinational businesses need talented and culturally sensitive individuals to look after their interests overseas.

To successfully work in international business, you must have an appreciation of a country's culture and business practices, as well as extensive business knowledge.

This major gives an international focus to your business career. You'll learn to analyse international markets and business systems, navigate your way around international business environments and develop the competencies you need to work in a cross-cultural team.

Much of the study is practical, focusing on current issues and cases. This helps you develop high-level skills in management, problem solving, planning, organising and managing change and prepares you for working in a global environment. This major provides the flexibility to learn a language and undertake cultural studies.

Recommended double majors

- Economics
- Finance
- Marketing
- Tourism and Hospitality.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

You may be eligible for membership of the Australian Institute of Management.

Career information

Careers

- Corporate affairs manager
- Customs broker
- Foreign affairs and trade officer
- Import or export manager
- International business development manager
- International trade specialist
- Procurement services manager.

Industries

- Consulting firms
- Government departments
- Import and export companies
- International banking firms
- International consultancy
- International organisations.

Logistics and Supply Chain Management

Learn to manage the flow of goods and services from supplier to customer in the safest, fastest and most cost-effective way.

DEGREE

Bachelor of Commerce (Logistics and Supply Chain Management) or Bachelor of Innovation (Logistics and Supply Chain Management)

LEARN MORE

curtin.edu/lgscm

Overview

Logistic and supply chain professionals manage the supply of goods and services from the supplier through to the customer in the fastest, safest and most cost-effective way possible.

Studying this major prepares you for employment in transport, purchasing, distribution, manufacturing and retail.

You'll learn foundations and techniques of supply chain management, purchasing, procurement and systems analysis and design. You'll also gain experience in project management and operations management, and look at a range of issues applicable to strategic procurement, such as competitive conduct, strategy, logistics, sustainability and management.

Recommended double majors

- Human Resource Management
- International Business
- Management
- Marketing
- Tourism and Hospitality.

Career information

Careers

- Importer or exporter
- Inventory and supply officer
- Logistics coordinator
- Operations manager
- Procurement officer
- Supply chain analyst
- Transport administrator.

Industries

- Banking
- Brokerage
- Consultancy
- Resources.

Management

Learn how to take a leading role, manage budgets and staff and deal with key business challenges.

DEGREE

Bachelor of Commerce (Management) or Bachelor of Innovation (Management)

LEARN MORE

curtin.edu/mngmt

Overview

Management knowledge and skills are valued and needed in small-to-medium enterprises, non-profit organisations, large corporations and government, both locally and globally.

Management is about taking a leading role: supervising and mentoring staff, balancing budgets, and ensuring tasks and projects are completed successfully, together with recognising issues such as values, ethics and sustainability. It means taking responsibility, being entrepreneurial, getting things done and making the most of your staff and resources.

This major focuses on the key challenges facing managers today and in the future. You'll learn skills in problem-solving, decision-making, critical thinking, communicating with people and handling budgets.

You'll also learn how organisations work, strategic management, managing change, innovative leadership and incorporating ethics and sustainability into the workplace.

Recommended double majors

- Human Resource Management
- International Business
- Logistics and Supply Chain Management
- Marketing
- Tourism and Hospitality.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

You may be eligible for membership of the Australian Institute of Management.

Career information

Careers

- Business or retail manager
- Management consultant
- Service delivery manager.

Industries

- Consulting
- Finance
- Government
- Training and development.

Marketing

Discover how to communicate with a target audience, predict customer demand and develop marketing strategies.

DEGREE

Bachelor of Commerce (Marketing) or Bachelor of Innovation (Marketing)

LEARN MORE

curtin.edu/mrktg

Overview

Marketing is used to differentiate products and services in the marketplace, effectively communicate with a target audience and develop strategies that maximise consumer value, sales and profits.

Marketers blend advertising, promotions, digital and social media marketing, public relations, retailing and sales strategies to promote an organisation's brand, products and services.

This major will give you the chance to explore the wide realm of marketing including international and internet marketing, pricing, promotion and distribution strategies.

You'll also analyse the behaviour of competitors and customers to discover how marketing can be used to predict customer demand for products, services and ideas. The curriculum is kept up-to-date in consultation with key industry bodies, ensuring your learning meets the future needs of industry.

Recommended double majors

- Human Resource Management
- International Business
- Management
- Tourism and Hospitality.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

This course is accredited by the Australian Marketing Institute and the Chartered Institute of Marketing. You may be eligible for membership of the Australian Marketing Institute once you graduate.

Career information

Careers

- Digital marketing specialist
- Fundraising coordinator
- Market research analyst
- Marketing assistant
- Marketing communications manager
- Marketing officer
- Product manager.

Industries

- Advertising
- Government
- Leisure and tourism
- Manufacturing
- Retail and wholesale
- Service industries.

Property Investment and Development

An excellent qualification to hold whatever your chosen career path in property.

DEGREE

Bachelor of Commerce (Property Investment and Development) or Bachelor of Innovation (Property Investment and Development)

LEARN MORE

curtin.edu/bach-prop

Overview

Skilled property professionals are involved in property development, valuation, investment, analysis, and residential and commercial real estate sales.

Our Property Investment and Development major will develop your skills in economics, law, construction and finance to deliver the knowledge required for a career in property.

You'll learn to analyse property investments and developments, gain insight into the structure and operations of the real estate industry and develop the essential legal, analytical and economic skills required to begin a career in property.

Recommended double majors

- Finance
- Management
- Marketing.

Professional recognition

Professionally accredited by the Royal Institution of Chartered Surveyors when studied with Finance or Marketing.

Career information

Careers

- Commercial sales agent
- Investment analyst
- Property developer
- Property finance professional
- Property manager.

Industries

- Asset management
- Banking and investment
- International property
- Property development
- State and local government.

Property Development and Valuation Extension

Learn to analyse property investments and developments.

DEGREE

Bachelor of Commerce (Property Development and Valuation Extension)

LEARN MORE

curtin.edu/prptyex

Overview

In this major, you will cover economics, finance, law, construction, sustainability and investment analysis. An industry-focused teaching structure means you'll be taught by experienced industry professionals and researchers.

In your final year, you will undertake a three-week practical placement under the guidance of a fully qualified Australian Property Institute member.

The Property Development and Valuation Extension major comprises the Property Investment and Development major and an embedded specialisation in Commercial Property and Valuation.

If you wish to learn about property as part of a double major with another discipline area, you should instead select the Property Investment and Development major as your primary major.

Professional recognition

Completing this major can give you the necessary educational requirements to qualify for API membership at the Certified Practising Valuer level, after an approved period of further industry training.

It also satisfies the qualification requirements to be eligible for registration as a real estate sales representative as prescribed under regulation 6A of the Real Estate and Business Agents (General) Regulations 1979 and to apply for an individual real estate agent or business agent licence under the Real Estate and Business Agents Act 1978.

It is recognised by the Department of Mines, Industry Regulation and Safety WA (DMIRS) where graduates are eligible to apply for a Real Estate and Business Agent Licence.

Career information

Careers

- Commercial sales agent
- Investment analyst
- Property developer
- Property finance professional
- Property manager
- Valuer.

Industries

- Asset management
- Banking and investment
- International property
- Property development
- State and local government
- Valuation.

Taxation

Understand taxation laws in detail and graduate able to practise in Australia and overseas.

DEGREE

Bachelor of Commerce (Taxation) or Bachelor of Innovation (Taxation)

LEARN MORE

curtin.edu/bach-tax

Overview

The Taxation major provides in-depth understanding of taxation laws and practice in Australia and overseas.

You'll specialise in areas such as income tax, goods and services tax, fringe benefits tax, international tax, tax administration, tax implications of tax structures and state taxes.

To enhance your studies, you can join the Curtin Tax Clinic as a volunteer or through an internship unit. You'll gain real-life experience dealing with a variety of client taxation matters and participate in outreach programs offered by clients, including site visits to prisons and remote communities.

You'll also get to participate in field trips and national and international study tours.

Recommended double majors

- Accounting.

Double degree

This course can be taken as part of a double degree. See page 121 for double degree combinations.

Professional recognition

You may be eligible for membership of the Australian Institute of Management.

Career information

Careers

- International taxation specialist
- Tax agent
- Tax manager
- Taxation accountant
- Taxation lawyer
- Taxation specialist
- Treasurer.

Industries

- Accounting
- Finance and investment
- Government
- Law
- Resources and renewables.

Tourism and Hospitality

Become an effective manager in the tourism and hospitality sector in Australia or overseas.

DEGREE

Bachelor of Commerce (Tourism and Hospitality) or Bachelor of Innovation (Tourism and Hospitality)

LEARN MORE

curtin.edu/bach-trhosp

Overview

Tourism and hospitality are rapidly growing industries offering career paths in areas such as tourism development, event and festival organisation and hotel resort management.

Employers in this field need staff who enjoy travelling, meeting new people and sharing their experiences with others.

In this major you'll gain the knowledge and skills you need to become an effective manager in the tourism and hospitality sectors in Australia and overseas.

You will learn about contemporary issues in international tourism, such as event and tourism sustainability, the impact of tourism and events on the local and global economy, destination management, hospitality management and marketing.

Recommended double majors

- Human Resource Management
- International Business
- Logistics and Supply Chain Management
- Management
- Marketing.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Corporate travel consultant
- Hotel or motel manager
- Resort manager
- Restaurant and catering manager
- Tourism information officer
- Tourism manager
- Travel consultant.

Industries

- Destination management
- Events
- Government
- Hospitality
- Tourism.

Financial Mathematics (Advanced)

Learn the analytical and mathematical skills useful for a career in financial operations.

DEGREE

Bachelor of Advanced Science (Financial Mathematics) (Honours)

GUARANTEED ATAR

95

PREREQUISITES

Mathematics Specialist ATAR

DESIRABLES

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

095949E

LEARN MORE

curtin.edu/bach-finmath

Overview

This course will help you develop a broad range of analytical and mathematical skills, with particular relevance to statistical modelling and operations research in the financial context.

It offers a flexible and personalised approach to studying financial mathematics. You'll be able to explore the field through for-credit immersive research experiences, industry placement and/or interdisciplinary team-based projects.

You'll receive a strong grounding in corporate finance, financial institution, financial markets and various branches of the financial services industry, enhancing your employment prospects in the technological, industrial and commercial sectors. You may select from units in accounting, economics and business.

Work-based learning in this course is ensured through the requirement to engage in immersive industry and/or research experience. In your capstone experience you'll have the opportunity to pursue mathematics projects that may be based anywhere from pure research through to translational (entrepreneurial) science.

This major is part of the Bachelor of Advanced Science (Honours) program, designed for high-performing students to pursue their interest in science through a core of research, leadership and entrepreneurship. It provides you with opportunities to source and undertake internal and external internships and immersive work experience, which can be used for course credit. Work-based learning is ensured through the requirement to engage in immersive industry and/or research experience.

Professional recognition

Graduates of this course may be eligible for membership to the Statistical Society of Australia (SSAI), Australian Society for Operations Research and Australian Mathematical Society (Aust MS).

Career information

Careers

- Commercial banker
- Finance/funds manager
- Financial analyst
- Financial planner
- Stockbroker
- Superannuation manager.

Industries

- Banking and finance
- Econometrics
- Education
- Government
- Insurance
- Investment banking
- Risk management.

Innovation

Are you inspired by innovation? If you want the skills to be an innovator or to help solve the big challenges, from local to global, this course is for you.

DEGREE

Bachelor of Innovation

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

112415A

LEARN MORE

curtin.edu/bach-inn

Overview

This course has been designed by researchers at Curtin Business School to support the development of next-generation innovators. It integrates our "GRIT" concepts - global, responsible, innovative, technology - and the skills that the World Economic Forum has identified as non-negotiable for the 21st century.

During your studies you will learn innovation strategies and how to innovate ethically, engage globally, and use technology decisively to deliver solutions with positive social and industry impacts.

You'll learn how to apply critical business knowledge, creative thinking and innovation skills to the discipline of your choice. You'll also have transformative experiences such as regional and international study tours, hackathons, internships and other work-integrated learning opportunities.

Additionally, as an Innovation student you can join the Curtin Ignition and Curtin Accelerate entrepreneurship programs, and access executive education masterclasses that are designed to help you set up your own enterprise.

This course supports the United Nations Sustainable Development Goals and advocates for the stewardship of First Nations Peoples, and you'll gain a useful understanding of different cultural perspectives and communicating for various local, regional and global contexts.

You can create a multidisciplinary skill set by choosing a major from Business and Law or specialisations from any study area.

In your first year, you'll study the business core units and choose your major or two specialisation units. You'll then complete the innovation fundamentals units and customise your degree with a choice of unit options.

Throughout the course you'll have scaffolded opportunities to build expertise through four transformative experiences - which will challenge you to solve real-world local, regional and global problems using innovation skill sets.

Business core

With these business core units you'll gain a solid foundation in business theory and practice:

- Communication Culture and Indigenous Perspectives in Business
- Strategic Career Design
- Financial Decision Making
- Markets and Legal Frameworks
- Analytics for Decision Making.

Innovation fundamentals

These units are our suite of innovation fundamentals:

- Introduction to Innovation Principles
- Design Principles and Processes
- Design Computing OR Introduction to Business Programming
- Responsible Innovation and Leadership
- Project Management
- Entrepreneurship OR International Management
- Management of Innovation.

Build your degree

You can customise your degree through two options:

Option 1: Complete a Business major

Select one of the following Business majors (eight units) that match your career aspirations:

- Business Information Systems
- Business Law
- Economics
- Finance
- Human Resource Management
- International Business
- Logistics and Supply Chain Management
- Management
- Marketing

- Property Investment and Development
- Taxation
- Tourism and Hospitality.

Option 2: Complete two specialisations

Select two relevant specialisations from discipline areas such as business, humanities, science and the Centre for Aboriginal Studies.

Explore the range of specialisations at curtin.edu/specialisations.

Transformative experiences

Throughout the course you'll complete four transformative experience units from the six options below.

Sustainable Business Innovation Project

You'll apply your entrepreneurial skills, business ideas and out-of-the-box thinking to a genuine business environment, improving your employability.

Business Innovation Lab

You will use your initiative, creativity and adaptability as you work on an applied business project within a start-up environment. As part of an interdisciplinary



team, you'll solve a problem or advance an innovation while demonstrating your managerial judgement, professional communications and commitment to responsible business practice.

Business Internship OR Interactive Study Tour OR Business and Law International Experience

Business Internship

You'll have the opportunity to gain work experience with an external employer or work on a real industry project related to your area of study, in Australia or internationally*. These projects have defined objectives, with activities that a graduate in that role would be expected to complete. On an internship, you could:

- conduct research or data analysis
- scope the viability of new projects
- support the implementation of new systems
- identify market opportunities and revise marketing strategies
- assist with an upcoming event.

Note that selection for internships is a competitive process.

Interactive Study Tour

Our Interactive Study Tour enables you to enjoy a study abroad experience from home! You'll connect with Curtin students from our global campuses and collaborate to develop strategies for addressing current and emerging global problems.

Business and Law International Experience

Complete your degree while travelling the world, by studying a short course with one of our exchange partners.*

Business Study Tour

Visit regions, countries and organisations in Australia or overseas* to apply your innovation skill-sets to solve a regional problem and experience diverse ways of doing business.

** Opportunities may vary depending on academic performance and international travel restrictions.*

Career information

Careers

- Innovation analyst/startup advisor
- Entrepreneur
- Consultant (in area of major/specialisation)
- Business manager
- Business analyst
- Marketing or social media consultant
- Supply chain consultant
- Web developer
- Tourism and event manager
- Chief strategy officer
- Product strategy manager
- Venture capitalist diligence officer.

Industries

- Health innovation
- ICT and cybersecurity
- Media and marketing
- Higher education
- Government and non-profit
- Tourism
- Design
- Transport and supply chains
- Resources and energy
- Retail.



Law

Set the bar high and become a legal practitioner. An undergraduate degree in law is the first qualification you need to commence a career in legal practice.

DEGREE

Bachelor of Laws

GUARANTEED ATAR

90

PREREQUISITES

None

DESIRABLE

None

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, then Perth city

CRICOS CODE

077962B

LEARN MORE

curtin.edu/bach-laws

Overview

Curtin's Bachelor of Laws offers a rich and professionally relevant foundation in legal knowledge. You'll learn core skills essential to effective legal practice and build a strong commercial awareness. From early on in your studies, you'll start to recognise the importance of respecting the rule of law along with the responsibilities and ethics of legal practice.

You'll also have the opportunity to choose from optional units that focus on topics such as forensic advocacy, employment law, family law, human rights law and native title law and policy, and law and technology. The range of optional units enables you to tailor your degree to suit your interests.

Most of your course will be completed at Curtin Law School in the heart of Perth city's legal precinct. You can gain practical experience by undertaking simulated legal proceedings in our high-tech moot court,

working on real cases at the John Curtin Law Clinic, and participating in our Legal Internships Program.

Through the Legal Internships Program, you can experience working in a legal environment such as a court, law firm or community legal centre, with an organisation's in-house legal team or with a barrister. These experiences will develop your practical legal skills and help you to identify which area of law you may like to practise. Curtin Law School has developed relationships with a range of organisations to offer legal internship placements to our students.

The first year of this course is delivered in semesters at Curtin Perth, with the second and third years delivered in trimesters at Curtin Law School in Perth city. This accelerated format, which is equivalent to a four-year (full-time) undergraduate degree, means you can graduate after just three years of full-time study.

Professional recognition

Curtin University provides you with a complete pathway to legal practice. If you go on to complete a Graduate Diploma in Legal Practice after completing your Bachelor of Laws, you will satisfy the academic and practical legal training requirements to qualify for admission to the legal profession in Western Australia.

Career information

Careers

- Barrister
- Criminal lawyer
- Employment lawyer
- Family lawyer
- Human rights lawyer
- In-house counsel
- Mining lawyer
- Solicitor.

Industries

- Banking and finance
- Courts and tribunals
- Government
- Law
- Private legal practice
- Resources.



Practical Legal Training

Our Practical Legal Training (PLT) course is a graduate diploma designed for Curtin Bachelor of Laws graduates who intend to apply for admission to the legal profession in Western Australia.

Approved by the Legal Practice Board of Western Australia, this is first specialised PLT program to be delivered by a WA university.

For more information, visit curtin.edu/gd-lawlp.



Education



TRENDS TO WATCH

- Immersive technologies, metaverses and gamification
- Chatbots as teaching assistants
- Alternative credentials from workshops and flexible courses
- STEAM learning
- Online classrooms

A person's education is the stepladder to their future. If you want to help others reach their full potential, then Curtin's education courses can help you get there.

You'll learn about the cultural, social and individual needs of children in school and how you can make a difference to their future.

If you choose secondary education, you can specialise in a particular area of teaching, such as English, mathematics, science, social science, the arts and languages.

Courses

Early Childhood Education

Primary Education

Secondary Education

Educational Studies

Early Childhood Education

Play an integral role in shaping the social and cognitive development of young children.

DEGREE

Bachelor of Education (Early Childhood Education)

GUARANTEED ATAR

70

PREREQUISITES

You will need to submit a non-academic statement with your course application to be considered for entry to this degree.

DESIRABLE

Mathematics Applications ATAR

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth, online

CRICOS CODE

020852A

LEARN MORE

curtin.edu/bach-edec

Overview

This initial teacher education degree provides the skills, knowledge and practical learning experiences needed to teach young children (aged from birth to eight years) in early education settings. These include early learning and childcare centres, kindergarten, pre-primary and junior primary classes.

You will learn about child development, the curriculum areas and the importance of family partnerships. You'll also choose two elective units from a list of education subjects to broaden your learning.

As part of the course you'll complete four professional work experience placements in schools or early learning centres. These placements are undertaken in full-time blocks, regardless of your study mode. You may have the opportunity to undertake a rural, interstate or overseas placement.

Teaching placements

You will complete 840 hours of supervised teaching practice during the course, which includes:

- Year 2: a three-week full-time block
- Year 3: five one-day visits plus a three-week full-time block, and a four-week full-time block
- Year 4: a block of one full school term (typically 10 weeks).

Professional recognition

This course is accredited by the Teachers Registration Board of WA and is recognised nationally as an initial teacher education qualification. Graduates can register as a teacher in Australia and other countries that recognise Australian teaching qualifications.

Career information

Careers

- Early childhood teacher
- Junior primary teacher
- Education advisor and reviewer
- Early learning centre manager
- Early learning centre educator
- Nanny.

Industries

- Early education (government and non-government)
- Education (government and non-government).

Primary Education

Gain the qualification you need to teach primary school-aged children in Australia.

DEGREE

Bachelor of Education (Primary Education)

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

Mathematics Applications ATAR

STAT

Accepted

PORTFOLIO ENTRY

Accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth, online

CRICOS CODE

020853M

LEARN MORE

curtin.edu/bach-edpr

Overview

Primary school teachers educate children in years 1–6 across the range of Australian curriculum learning areas.

This initial teacher education degree provides the qualification required to teach primary school students in the Australian Government, Catholic and Independent school sectors. Graduates are eligible for registration as a teacher in all Australian states and territories, and in countries that recognise Australian teaching qualifications.

The course takes a student-centred approach to teaching and learning, encouraging analytical and critical thinking. Core education units comprise the bulk of this degree, but you will also select three units that allow you to specialise in an offered area of the primary school curriculum.

As part of the course, you will complete four professional work experience placements in schools. These placements are undertaken in full-time blocks, regardless of your study mode. You may have the opportunity to undertake a rural, interstate or overseas placement.

Teaching placements

You will complete 760 hours of supervised teaching practice during the course, which includes:

- Year 2: a two-week full-time block and three-week full-time block
- Year 3: a four-week full-time block
- Year 4: a block of one full school term (typically 10 weeks).

Before you apply

To be considered for admission to this course, you must submit a non-academic statement with your application.

Professional recognition

This course is accredited by the Teachers Registration Board of WA and is recognised nationally as an initial teacher education qualification. Graduates can register as a teacher in Australia and other countries that recognise Australian teaching qualifications.

Career information

Careers

- Primary school teacher
- Curriculum designer
- Policy development officer
- Education administration officer
- Trainer, mentor or coach
- Special programs officer.

Industries

- Primary education (government and non-government)
- Early education (government and non-government).

Secondary Education

Guide students through adolescence and prepare them for a successful life ahead.

DEGREE

Bachelor of Education (Secondary Education)

GUARANTEED ATAR

70

PREREQUISITES

Prerequisites are required for the following majors:

- Mathematics Education – Mathematics Methods ATAR
- Science Education (Biology) – Mathematics Applications ATAR
- Science Education (Chemistry) – Chemistry ATAR and Mathematics Methods ATAR
- Science Education (Physics) – Physics ATAR and Mathematics Methods ATAR

DESIRABLE

Mathematics Applications ATAR is recommended for all majors; and additional prior study is recommended for the following majors:

- Mathematics Education – Mathematics Specialist ATAR
- Science Education (Biology) – at least one Science ATAR course from the list below*
- Science Education (Chemistry) – Mathematics Methods ATAR and Physics ATAR
- Science Education (Human Biology) – Mathematics Applications ATAR, Chemistry ATAR; and Human Biology ATAR or Biology ATAR
- Science Education (Physics) – Mathematics Specialist ATAR and Chemistry ATAR
- Science Education (Psychology) – at least one Science ATAR course from the list below*

* *Animal Production Systems, Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Marine and Maritime Studies, Physics, Plant Production Systems, Psychology.*

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

096505C

LEARN MOREcurtin.edu/bach-edsc**Overview**

This initial teacher education degree prepares you for a rewarding career in secondary school teaching, and enables you to pursue specialist interests. You will develop the critical knowledge and skills of best practice in education to meet the needs of 21st-century learners.

You can specialise in one or two curriculum areas, studying units that provide specialist discipline knowledge and units that develop your pedagogical knowledge.

You will also study units that establish your understanding of teaching practice, such as educational psychology, Indigenous education and teaching students with diverse learning needs.

As part of the course you will complete four professional work experience placements in schools. These placements are undertaken in full-time blocks, regardless of your study mode. You may have the opportunity to undertake a rural, interstate or overseas placement.

Teaching placements

You will complete 720 hours of supervised teaching practice during the course, which includes:

- Year 2: a two-week full-time block and three-week full-time block
- Year 3: a three-week full-time block
- Year 4: a block of one full school term (typically 10 weeks).

Build your degree**Step 1: Choose your major**

Your major prepares you with the content and pedagogical knowledge you will need to teach across your chosen curriculum area from Years 7 to 12, as well as in your specialist subject area in Years 11 and 12.

Choose your major from:

- English
- HASS* (Geography)
- HASS* (History)
- HASS* (Economics)
- HASS* (Politics and Law)
- Health and Physical Education
- Mathematics
- Science (Biology)
- Science (Chemistry)
- Science (Human Biology)
- Science (Psychology)
- Science (Physics)
- The Arts (Drama)
- The Arts (Media Productions and Analysis)
- The Arts (Visual Arts).

* *Humanities and Social Sciences (HASS)*

Step 2: Complete your degree structure

Complement your major with one of the three options below. This step happens after you accept Curtin's offer for your chosen major, however your choice of second specialisation is dependent upon the education major you select.

Refer to the specific majors for more information about available second specialisations.

Option 1: A minor teaching area

Expand your scope as an educator by supplementing your major teaching area with a minor teaching specialisation from a different area of the school curriculum.

Option 2: Extend your major teaching area

With this option you will deepen or broaden your understanding of your specialist subject area by studying additional discipline-specific units. You will also extend your curriculum and pedagogical knowledge in your chosen major.

Option 3: An education specialty

Extend your curriculum and pedagogical knowledge in your chosen major, while furthering your studies by choosing from a selection of education units.

Before you apply

To be considered for admission to this course, you must submit a non-academic statement with your application.

Professional recognition

This course is accredited by the Teachers Registration Board of WA, and is recognised nationally as an initial teacher education qualification. Graduates can register as a teacher in Australia and other countries that recognise Australian teaching qualifications.

Career information**Careers**

- Secondary school teacher
- Policy development officer
- Special programs officer
- Trainer, mentor or coach
- Curriculum designer.

Industries

- Education (government and non-government).

Educational Studies

Increase your workplace skills in education, gaining comprehensive knowledge of education curricula, leadership and research.

DEGREE

Bachelor of Educational Studies

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

Mathematics Applications ATAR

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

095951M

LEARN MORE

curtin.edu/bach-educ

Overview

The field of education includes a range of professional roles that require comprehensive understanding of the education curriculum and advanced communication skills.

In this degree you will learn about the field of education from the perspective of someone who isn't intending to seek registration as a qualified school teacher.

You'll explore core learning areas of the curriculum and learn how to respond to the diverse needs of students.

You'll examine mentoring, leadership and research within an educational environment. This knowledge is useful for those working in education administration and management teams. You can specialise in early years and primary education or in secondary education.

After you graduate from this course, if you are interested in seeking registration as a qualified teacher, you can apply for entry into our initial teacher education courses and apply for Credit for Recognised Learning for units you have completed.

Please note: This course is not accredited by the Teacher Registration Board of Western Australia. The course is therefore not suited to those who wish to register as a teacher.

Career information

Careers

- Education administrator
- Education policy developer
- Coach/mentor
- Curriculum designer
- Teaching support officer.

Industries

- Early, primary and secondary education (government and non-government).

Graduates may seek employment in education related fields such as tutoring, training and developing education programs for a variety of organisations.





Engineering, mining and surveying



TRENDS TO WATCH

- Digital twins
- Green engineering
- Waste upcycling
- Rare earth mining
- Automated safe mining

Develop your problem-solving skills and learn to design, construct and test machines, systems, structures, materials and processes.

Depending on your course, you may be able to transfer to Curtin Kalgoorlie, our overseas campuses or our partner institutions during your studies.

Courses

Engineering

- Chemical Engineering
- Civil and Construction Engineering
- Electrical and Computer Engineering
- Industrial and Systems Engineering
- Mechanical Engineering
- Mechatronic Engineering
- Metallurgical Engineering
- Mining Engineering

Extractive Metallurgy

Mine and Engineering Surveying

Mining

Surveying

See also

Earth Sciences (page 116)

Software Systems Engineering (page 111)



#1 IN AUSTRALIA

We're number one in Australia for mineral and mining engineering, and second in the world.

QS World University Rankings by Subject 2022.

Engineering

Access outstanding, purpose-built facilities and start work as a professional engineering graduate in just four years.

DEGREE

Bachelor of Engineering (Honours)

GUARANTEED ATAR

80

PREREQUISITES

Mathematics Methods ATAR and at least one of the following: Physics ATAR, Chemistry ATAR, Engineering Studies ATAR

DESIRABLE

Mathematics Specialist ATAR or equivalent

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE¹

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION²

Perth, Dubai, Malaysia, Sri Lanka

CRICOS CODE

072467B

LEARN MORE

curtin.edu/bach-engr

¹ Perth intake shown.

² Majors offered may vary between locations.

The Bachelor of Engineering (Honours) offers you an industry-connected education experience in which you will learn how to provide solutions to complex societal challenges and improve the quality of life for people all around the world.

Your study will begin with the Engineering Foundation Year (EFY). You will learn the fundamental concepts and develop the required skills common to all areas of engineering – giving you the opportunity to explore our range of engineering majors before choosing the major you will study from your second year.

Our engineering majors are:

- Chemical Engineering
- Civil and Construction Engineering
- Electrical and Computer Engineering
- Industrial and Systems Engineering
- Mechanical Engineering
- Mechatronic Engineering
- Metallurgical Engineering
- Mining Engineering
- Software Systems Engineering

Engineering Foundation Year

Designed in extensive consultation with industry, our EFY program and its purpose-built first-year studios encourage learning by doing.

The EFY's cross-disciplinary curriculum has been developed as a base for all Curtin engineering disciplines, to ensure you graduate with a solid theoretical grounding, strong practical experience and cultural awareness.

Your studies will include a focus on emerging engineering themes including data analytics, 3D printing, machine learning and automation, so you'll graduate with skills and abilities relevant to the future of the field. Your studies will also address global challenges such as climate change, developing your professional responsibilities.

The program and its support services will help you progress smoothly into your area of specialisation and graduate as a sought-after and career-ready engineer.

The EFY includes:

- full-class lectures
- small group tutorials
- hands-on laboratory work
- team-based design and simulation projects
- web-based learning resources, bulletin boards, online tutorials and quizzes
- portfolio development, with an emphasis on reflection and self-evaluation
- participation by industry representatives, exposing students to professional practice.

First-year studio

The first-year studio and project rooms reflect the modern working environment, enabling you to familiarise yourself with the layout of a professional career setting.

The studio is also a hub to develop social and academic networks. It comprises:

- an open-plan office
- computing, electrical and mechanics laboratories
- one-on-one learning assistance Engineering Tutor Access Points (ETAPs)
- project meeting rooms.

Years 2–4

In the second and third year of your engineering degree you will study units relevant to your chosen major. You also have the option to undertake research or specialisations outside of your major. This flexibility ensures you acquire transferrable and problem-solving skills.

In your fourth year of study you will undertake an honours-level, independent research project. Structured across two units of study, the project will give you an in-depth understanding on your thesis topic. It will demonstrate to potential employers your skills in planning and undertaking a complex body of work within deadlines.

Professional practice

To graduate from this course you must have completed 480 hours of exposure to professional engineering practice and completed senior first-aid training.

Professional practice can comprise a combination of real-world experiences. Examples include paid and voluntary work placements, university-based experience in industrial projects, attending extra-curricular technical lectures and workshops, and industry site visits in Australia and/or overseas.

Professional recognition

Graduates fulfil the stage one competencies required by Engineers Australia for a professional engineer.



“My decision to study civil engineering was driven by my aspiration to make a positive impact on people’s lives. Civil engineering has an influence everywhere, from the treatment of water to structures such as buildings and roads, so by choosing to study this course someday I’ll be contributing to society.”

“I enjoy the practical components of the course the most. In our laboratories and field practicals we learn to use equipment and procedures that are similar to what is conducted on site.”

“After graduating I hope to work my way towards becoming a project manager on larger projects similar to the Metronet.”

Tanaya Radecker

Bachelor of Engineering (Civil and Construction Engineering) (Honours)

Chemical Engineering

Expand your range of career options in process engineering industries.

DEGREE

Bachelor of Engineering (Chemical Engineering) (Honours)

LEARN MORE

curtin.edu/beh-cheng

Overview

Chemical or process engineering involves finding the best sequence of physical, chemical and biological processing steps, and the right operating conditions, to convert raw materials into higher value materials safely, economically and on a large scale.

Hydrocarbon products and metals production are among the most recognised traditional applications of chemical engineering, but the discipline encompasses a diversity of products that serve the changing needs of society. These include the emerging hydrogen economy and battery technologies, but also polymers, advanced materials, speciality chemicals, pharmaceuticals and consumer products such as food and beverages, cosmetics, agrichemicals, cement, paper and clean water.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

When you graduate, you fulfil the stage one competencies required by Engineers Australia to be a professional engineer.

Career information

Careers

- Chemical engineer
- Process engineer
- Production/operations engineer
- Risk and safety manager.

Industries

- Energy, including oil and gas
- Bioengineering and biotechnology
- Aerospace and automotive
- Agrochemical
- Food processing
- Mineral and material processing
- Pharmaceutical
- Semiconductor
- Biomass and sugar refining
- Cement and lime production
- Industrial and fine chemical production
- Petrochemical and polymer production
- Paper and board manufacture
- Water and wastewater treatment.

Civil and Construction Engineering

Design and construct the infrastructure of tomorrow.

DEGREE

Bachelor of Engineering (Civil and Construction Engineering) (Honours)

LEARN MORE

curtin.edu/beh-ccoeng

Overview

Civil engineers design and construct our infrastructure. They are key members of teams involved in the design and construction of buildings, bridges, roads and highways, harbours, dams, irrigation and water supplies, municipal infrastructure and other large structures and projects.

As our built environment becomes increasingly complicated, ambitious construction projects can only be completed by teams of people with different skills, working together. The civil engineer is central to this process.

In this course, you will develop basic scientific, mathematical and practical skills. You’ll learn how to use these skills to solve engineering problems and then to develop your civil engineering capabilities.

You’ll learn to apply these skills in structural analysis and design, geotechnical engineering, transportation engineering, hydraulics, construction and professional practice.

In your final year, you’ll integrate your design, construction and management skills in large civil engineering projects; undertake a major civil engineering research project; and select units from speciality options in the areas of structural, geotechnical, transportation, water resources and environmental engineering.

To satisfy professional requirements, you’ll complete at least 12 weeks (or equivalent) of exposure to professional engineering practice. This requirement can be met through appropriate work experience or a combination of technical and non-technical activities.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

Graduates fulfil the stage one competencies required by Engineers Australia for a professional engineer.

Career information

Careers

- Civil engineer
- Construction engineer
- Geotechnical engineer
- Mining engineer
- Site engineer
- Structural engineer.

Industries

- Construction
- Consulting
- Contracting
- Government
- Mining
- Transportation
- Water supply.

Electrical and Computer Engineering

Gain a thorough understanding of the fundamentals of electrical and computer engineering before focusing on a specialisation that interests you.

DEGREE

Bachelor of Engineering (Electrical and Computer Engineering) (Honours)

LEARN MORE

curtin.edu/beh-elcomp

Overview

Rapid advances in electronic communication, the 'internet of things', and renewable and sustainable energy offer abundant career opportunities in electrical and computer engineering.

You'll gain a thorough understanding of the concepts that underpin electrical and computer engineering, before choosing one of the specialisations below.

In your final year you'll undertake a major research or design project and complete 12 weeks of professional practice.

Power Systems

With fossil fuels being a finite resource, it is vital that we harness alternative sources of electrical energy, such as solar and wind.

This specialisation will help you address the challenges in the generation, transmission and distribution of electricity. It covers topics such as smart grids, distribution systems and the integration of renewable energy.

Electronics and Communications

Society has an increasing demand for intelligent transportation systems, mobile broadband access, remote operations and tactile internet – the next evolution of the internet of things.

This specialisation will help you address challenges facing telecommunication systems, to enable fast and reliable communication anywhere and anytime.

Embedded Systems

Our world is increasingly characterised by intelligent devices that contain embedded systems. These systems enable a computer to control another computer, monitor it or provide it with sophisticated functionality.

In this specialisation, you will learn the theoretical and practical aspects of embedded systems, sensors and electronic design.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

Graduates fulfil the stage one competencies required by Engineers Australia for a professional engineer.

Career information

Careers

- Electrical engineer
- Electrical power engineer
- Electronics engineer
- Communications engineer
- Embedded systems engineer
- Medical systems engineer
- Network controller
- Power systems engineer
- Systems engineer.

Industries

- Application engineering
- Computer hardware design
- Electronic systems
- Fibre optics and mobile communications
- Manufacturing
- Robotics
- Software development
- Solar and renewable energy.



“Before I started this degree, the staff showed me how the mechanical engineering program could lead to a career in aerospace engineering. Now that I’m nearing the end of my studies, I’ve had numerous practical experiences in this area, and have even contributed to NASA’s Great Lunar Expedition for Everyone Program to build leaf-sized satellites to send to the moon!”

Keerthana Dana Sekaran

Bachelor of Engineering (Mechanical Engineering) (Honours) Curtin Dubai

Industrial and Systems Engineering

Use your analytical and problem-solving skills to optimise complex systems and processes.

DEGREE

Bachelor of Engineering (Industrial and Systems Engineering) (Honours)

LEARN MORE

curtin.edu/beh-indsyseng

Overview

Industrial and systems engineers design, install and improve systems that integrate people, materials, equipment, energy, information and finance – all while ensuring that quality, safety, environment and human needs are met. They utilise engineering management techniques with the principles and methods of engineering design and analysis to evaluate and predict the results of change.

Industrial and systems engineers are also key members of teams responsible for timing, costing, layouts, process flows, equipment requirements, plant operations and whole systems – including manufacturing facilities, supply chains, transportation networks and warehouses.

This engineering major incorporates units from engineering, sustainability, management and industrial mathematics.

You will gain specialised theoretical knowledge and practical foundations in engineering design, manufacturing, quality, systems engineering, control, operations research, practice and management, modelling, simulation and optimisation of industrial processes.

Graduates are frontline engineers for the rapid expansion from basic time and motion analysis to digitised automation of operations, maintenance, production monitoring, driverless trucks and unmanned aerial vehicles.

Professional recognition

This course is formally endorsed by the Naval Shipbuilding College and has provisional accreditation from Engineers Australia.

Career information

Careers

- Manufacturing engineer
- Production engineer
- Data modeller
- Logistics specialist
- Material handling, maintenance or scheduling specialist
- Plant manager
- Process control analyst
- Process improvement specialist
- Quality controller.

Industries

- Banking
- Communications
- Defence
- Healthcare
- Hospitality
- Minerals and energy
- Retail
- Space exploration.

Mechanical Engineering

Analyse and develop machines and moving systems.

DEGREE

Bachelor of Engineering (Mechanical Engineering) (Honours)

LEARN MORE

curtin.edu/beh-mceng

Overview

Mechanical engineers analyse and develop technological systems that involve motion. They help society harness the energy and forces that exist in nature.

Mechanical engineering is a discipline that is recognised worldwide. As one of the broadest engineering disciplines, it will provide you with versatile skills for numerous career options.

System conception, design, manufacturing, maintenance and management are all within the scope of mechanical engineering. These systems include micromechanical devices, power-generating turbines, thermal power generation, and air and transport systems.

This course is oriented to provide skill development opportunities with hands-on experience. You'll learn how to apply your knowledge and skills to devise and/or develop solutions for a range of engaging and challenging industry problems.

In particular, you'll appreciate applying your multidisciplinary problem-solving skills across a spectrum of science and engineering endeavours that extend through to biomedical engineering.

In your final year you'll undertake an individual research project.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

Graduates fulfil the stage one competencies required by Engineers Australia for a professional engineer.

Career information

Careers

- Mechanical engineer
- Aeronautical engineer
- Mechatronic engineer.

Industries

- Aerospace
- Automotive
- Manufacturing
- Marine engineering
- Mining
- Mineral and material processing
- Plant operation and maintenance
- Power generation
- Robotics
- System design
- Transportation
- Water supply.

Mechatronic Engineering

As the world becomes increasingly automated, the opportunities for mechatronic engineers are booming.

DEGREE

Bachelor of Engineering (Mechatronic Engineering) (Honours)

LEARN MORE

curtin.edu/beh-mxeng

Overview

Mechatronic engineers work at the interface of mechanical devices and electronic control systems.

With the ever-increasing reach of robotics and autonomous systems, mechatronic engineers are found in diverse industries including aerospace, agriculture, biotechnology mining and energy resources.

As the number of industries that are innovating through digital technologies grows, so do the opportunities for mechatronic engineers. Rapid advances in automation applications – such as self-driving vehicles and mine-site automation – are driving an increased need for mechatronic engineers with expertise in mechanical, electronic and computer systems engineering.

Numerous industries, including mining, transportation, agriculture and biomedical engineering, also require mechatronic engineers to work towards solutions for some of society's most pressing problems.

As a mechatronic engineering student, you will develop sound theoretical knowledge in the key disciplines of mechanics, electronics, computer systems and control. You'll apply this knowledge and develop practical skills through a series of projects on topics including mobile robot communications and automation, pneumatic automation systems and machine control.

In your final year of study, you'll undertake a major research or design project.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

Graduates fulfil the stage one competencies required by Engineers Australia for a professional engineer.

Career information

Careers

- Mechatronic engineer
- Mechanical engineer
- Automation engineer
- Computer systems engineer
- Data scientist.

Industries

- Aerospace
- Agritechology
- Autonomous vehicle
- Biosensors and security
- Biotechnology and biomechanics
- Manufacturing
- Mining and resources
- Oil and gas
- Renewable energy
- Robotics
- Subsea engineering.

Metallurgical Engineering

Learn to design and manage plant processing operations to create mineral and metal products.

DEGREE

Bachelor of Engineering (Metallurgical Engineering) (Honours)

LEARN MORE

curtin.edu/beh-mteng

Overview

Metallurgical engineers mostly work in converting raw metals and minerals into more useable formats, such as converting iron ore and coal into steel. They extract, refine and recycle metals and minerals that are used in many areas of everyday life, including energy production, food production, housing and transportation.

In this major you will learn to design, develop, optimise and manage the operation of metallurgical processing plants that transform low-value raw materials into useful, high-value mineral and metal products – and in an economical and environmentally responsible way.

You'll gain a thorough grounding in chemical and physical engineering, economic, environmental and sustainable principles, and the extraction of metals from ores. This course also includes a strong management component.

Following your Engineering Foundation Year (EFY) at Curtin Perth, you can go directly to Curtin Kalgoorlie, or study your second year in Perth before completing your third and fourth years in Kalgoorlie. Studying in Kalgoorlie will provide you with meaningful exposure to the resources sector.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

Graduates fulfil the stage one competencies required by Engineers Australia for a professional engineer.

Career information

Careers

- Metallurgist
- Hydrometallurgist
- Metallurgical engineer
- Minerals engineer
- Process control specialist
- Process engineer
- Process mineralogy specialist
- Pyrometallurgy specialist.

Industries

- Banking and finance
- Engineering
- Equipment design and sales
- Food production
- Housing
- Mining and minerals processing
- Research and development
- Transportation.

Mining Engineering

Develop the skills you need to extract minerals from underground or open-pit mines.

DEGREE

Bachelor of Engineering (Mining Engineering) (Honours)

LEARN MORE

curtin.edu/beh-mineng

Overview

Mining engineering is where the latest technology is used to extract minerals from the earth safely and efficiently.

It's a profession defined by rapid scientific advancement, and, as a Curtin student, you'll be at the cutting edge.

In this major you will learn about emerging mining technology such as robotics, data analytics and additive manufacturing. You'll delve into mining economics, gain understanding and consideration of working with Indigenous cultures, and discover how to make a positive contribution to sustainable development.

You can broaden your learning and enhance your employability by studying elective units.

The degree is tailored to guide your transition from the classroom to a job in the global resources sector, fully equipped to handle the technological developments that are transforming the industry.

In your first year, you'll study the Engineering Foundation Year (EFY), learning the fundamental concepts and develop the skills common to all areas of engineering.



Following this, you can go directly to Curtin Kalgoorlie, or study for a second year in Perth before completing your third and final years in Kalgoorlie. Studying in Kalgoorlie will provide you with meaningful exposure to the mining industry.

As you progress, emphasis will be placed on mining science and technology, which involves the study of soil and rock mechanics, explosives and rock breakage, materials transport, mining methods, mine planning, project evaluation and the environment. In your final year, you'll undertake a major research project and a team design project.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Mining engineer
- Management consultant
- Mine manager
- Mine planner and designer
- Mining company director
- Operations manager.

Industries

- Government
- Mining and resources
- Research and development
- Risk analysis and investment.

Extractive Metallurgy

Learn to manage the operation of metallurgical processing plants in an economical and environmentally responsible way.

DEGREE

Bachelor of Science (Extractive Metallurgy)

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR and Chemistry ATAR or Physics ATAR

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, Dubai, Singapore, Sri Lanka

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-exmet

Overview

Extractive metallurgists extract and purify metals and other products from ores obtained through mining operations. They have a strong understanding of chemistry, environmental science and mineralogy.

In this course you will learn to develop, optimise and manage the operation of metallurgical processing plants in an economical and environmentally responsible way. These plants transform low-value raw materials into useful, high-value mineral and metal products.

You'll cover the chemical, physical, economic, environmental and sustainable principles and practices for the extraction of metals from ores.

Your first year of study will be at our main campus, Curtin Perth. You will complete your second year at Curtin Perth or Curtin Kalgoorlie, and your final year will be at Curtin Kalgoorlie, which can help you maximise your exposure to industry and potential future employers.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

Professionally recognised by the Institute of Mining and Metallurgy.

Career information

Careers

- Metallurgist
- Plant metallurgist
- Process metallurgist
- Processing consultant.

Industries

- Banking and finance
- Minerals and mining
- Research and development.



Mine and Engineering Surveying

Become a specialist surveyor using a range of software and equipment, including GPS and drones, to acquire and process land and satellite data.

DEGREE

Bachelor of Mine and Engineering Surveying

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR

DESIRABLE

Mathematics Methods ATAR desirable

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, then Kalgoorlie

CRICOS CODE

110733C

LEARN MORE

curtin.edu/bachmineengsurv

Overview

Mine and engineering surveying is a specialised area within engineering and science. Also known as geomatics engineering or geomatics, the profession has a vital role in resources industry and infrastructure development.

Mine surveyors are responsible for the measurement, representation and management of data associated with a mining operation. Their core responsibilities include the marking out, measurement and maintenance of direction for mine site surface and underground workings. Mine surveyors are also responsible for (under the Mines Safety and Inspection Act 1994) the preparation and updating of all mine surveying plans for open-pit and underground workings.

Engineering surveyors are integral to the construction industry, ensuring the locations of civil engineering works are correctly positioned and oriented. Engineering surveying typically precedes construction associated with roads, bridges, tunnels, buildings, industrial plants and hydraulic engineering.

In this course you will learn the advanced technology and scientific principles and methods of surveying and how to apply these to industry applications, including land development, construction, mining and mapping.

You'll develop skills in marking out, measuring and maintaining direction for mine site surface and underground workings, and how to prepare and update mine site surveying plans. In your engineering surveying units, you'll learn how to ensure civil engineering works are placed in their correct positions and orientations.

You'll learn to access, evaluate and generate surveying, spatial and related information from multiple sources, and gain the expertise to recognise, analyse and resolve surveying challenges through surveying methods and technologies. These include total station theodolites, satellite positioning (GPS/GNSS), laser scanning, photogrammetry (via drone surveying), geographic information systems (GIS), airborne and marine navigation, digital mapping, satellite and airborne remote sensing, and specialised alignment mine and engineering surveying.

The first two years of the course are based at Curtin Perth, and the third year is based at Curtin Kalgoorlie, where you'll have opportunities to engage with real industry practices.

Career information

Careers

- Engineering surveyor
- Mining surveyor.

Industries

- Construction
- Mining and resources
- Urban and regional development.

Mining

Study mining methods, rock mechanics, geology and mine planning.

DEGREE

Bachelor of Science (Mining)

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR and Chemistry ATAR or Physics ATAR

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, then Kalgoorlie

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-mngsc

Overview

Mining continues to enrich many communities in Australia and around the world. Mining professionals help plan and direct the extraction of minerals, petroleum and natural gas from the Earth.

In this course you will study mining methods, rock mechanics, geology and mine planning. You'll develop the skills necessary to work with mining engineers in the exploitation of minerals from underground or open-pit mines, safely and economically.

Your first year of study will be at Curtin Perth, your second year will be at Curtin Perth or Curtin Kalgoorlie, and your final year will be at Curtin Kalgoorlie, where you can engage with industry and potential future employers.

You'll also have the opportunity to undertake field trips to gain real-world experience in mining.

Professional recognition

This course is recognised by the Australasian Institute of Mining and Metallurgy.

Career information

Careers

- Engineering consultant
- Mine manager
- Mine ventilation officer
- Mining engineer
- Mining company director.

Industries

- Mining and resources.

Surveying

Surveying is a highly specialised professional discipline that involves measuring the surface of the Earth and its features.

DEGREE

Bachelor of Surveying (Honours)

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR

DESIRABLE

Mathematics Methods ATAR

STAT

Accepted

PORTFOLIO

Not accepted

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

102612A

LEARN MORE

curtin.edu/bach-surv

Overview

Surveyors use sophisticated technology and scientific principles to provide practical surveying solutions and services to numerous areas of government and industry.

Curtin offers the only comprehensive honours degree in surveying in Western Australia. The course draws upon elements from a diversity of disciplines, including computing, engineering, environmental science, geography, geology, management, mathematics and physics.

You'll study specialist areas such as cadastral surveying, engineering surveying, geodesy and photogrammetry; and related areas such as hydrographic surveying, land development, mine surveying, planning and remote sensing.

You'll also become familiar with high-tech areas such as airborne and marine navigation, drone surveying, digital mapping, land and environmental management, laser scanning, satellite positioning and specialised alignment surveying.

Professional recognition

Graduates are eligible to apply for membership of the Surveying and Spatial Sciences Institute and the WA Institute of Surveyors. Graduates can apply to the Land Surveyors Licensing Board of Western Australia to enter a practical training agreement to become a licensed surveyor (which requires two years of further training). Further licensing in the fields of hydrographic surveying and mine surveying are available.

Career information

Careers

- Engineering surveyor
- Hydrographic surveyor
- Licensed land surveyor
- Mine surveyor.

Industries

- Construction
- Mining
- Government (local, state and federal)
- Real estate
- Scientific and technical services.



First Nations



Did you know?

Curtin was the first Australian university to develop and implement a Reconciliation Action Plan.

Enjoy learning in a culturally appropriate environment that will help you in your career path. The Centre for Aboriginal Studies will provide a supportive base on campus that lends a sense of belonging and empowers you to take control of your learning.

Distinct from most other buildings on campus, the centre is circular in design. This important feature echoes the centre's logo – a goanna, or karda in the Nyungar language, curled in a circular shape to represent the continuity of life, as well as unity and equality.

Courses

Indigenous Pre-Medicine and Health Sciences Enabling Course

Indigenous Pre-Science and Engineering Enabling Course

Indigenous Tertiary Enabling Course

Indigenous Professional Practices

Indigenous Professional Practices (associate degree)

Indigenous Pre-Medicine and Health Sciences Enabling Course

An enabling course to help First Nations students gain entry into any health sciences course, including Medicine.

DEGREE

Indigenous Pre-Medicine and Health Sciences Enabling Course

MINIMUM ATAR

N/A

PREREQUISITES

You must be at least 17 years old, of Indigenous Australian descent and must meet English language proficiency and academic requirements.

To apply, follow the link on this page or send an expression of interest to the Centre for Aboriginal Studies. You will need to complete a literacy and numeracy assessment and attend an interview.

Please provide any academic transcripts or training documents (if applicable) with your application. Proof of your Aboriginal descent may also be required prior to enrolment.

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time

DURATION

1 year full-time

LOCATION

Perth

LEARN MORE

curtin.edu/en-premed

Overview

Are you interested in pursuing a career in medicine or health sciences? The Indigenous Pre-Medicine and Health Sciences Enabling course will prepare you for entry into most health sciences courses, including Medicine.

The course includes foundation units including mathematics, academic literacy and study skills, chemistry and health sciences.

Two units - Indigenous Cultures and Health Behaviour, and Foundation of Professional Health Practices - will contribute to a credit in the undergraduate course upon your successful completion.

Indigenous Pre-Science and Engineering Enabling Course

An enabling course for First Nations students interested in studying an undergraduate science or engineering course at Curtin.

DEGREE

Indigenous Pre-Science and Engineering Enabling Course

MINIMUM ATAR

N/A

PREREQUISITES

You must be at least 17 years old, of Indigenous Australian descent and must meet English language proficiency and academic requirements.

To apply, follow the link on this page or send an expression of interest to the Centre for Aboriginal Studies. You will need to complete a literacy and numeracy assessment and attend an interview.

Please provide any academic transcripts or training documents (if applicable) with your application. Proof of your Aboriginal descent may also be required prior to enrolment.

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time

DURATION

1 year full-time

LOCATION

Perth

LEARN MORE

curtin.edu/en-presci

Overview

This enabling course is a pathway for Indigenous Australian students interested in studying an undergraduate science or engineering course at Curtin.

It will help you meet the requirements for your chosen course and will equip you with the skills, knowledge and confidence to succeed at university.

Throughout the enabling course, you'll benefit from small class sizes and a range of academic support services at the Centre for Aboriginal Studies, including mentoring and tutoring.

When you complete the course, you will be eligible for entry into a range of Curtin's undergraduate science and engineering courses. Depending on the course you choose, you may be exempt from one unit based on what you've learned in the enabling course.

You can then transition into diverse areas of science or engineering, and gain a solid base for further study or work opportunities.

Indigenous Tertiary Enabling Course

Be supported in your learning and fast-track your studies.

DEGREE

Indigenous Tertiary Enabling Course

MINIMUM ATAR

N/A

PREREQUISITES

You must be at least 17 years old, of Indigenous Australian descent and must meet English language proficiency and academic requirements.

To apply, follow the link on this page or send an expression of interest to the Centre for Aboriginal Studies. You will need to complete a literacy and numeracy assessment and attend an interview.

Please provide any academic transcripts or training documents (if applicable) with your application. Proof of your Aboriginal descent may also be required prior to enrolment.

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

6 months full-time

LOCATION

Perth

LEARN MORE

curtin.edu/en-tert

Overview

This short course is designed to fast-track First Nations students with a secondary education and/or relevant TAFE qualification into undergraduate study.

When you complete the course, you will be equipped with the skills and confidence you need to study at tertiary level and you will be eligible for entry into a range of Curtin's degree and associate degree programs.

You may also benefit from career development opportunities such as mentoring and support when finding student work placements.

Indigenous Professional Practices

Become a role model for positive change in First Nations health and communities.

DEGREE

Bachelor of Applied Science (Indigenous Professional Practices)

MINIMUM ATAR

N/A

PREREQUISITES

Available only to applicants of Aboriginal or Torres Strait Islander descent. You must do an admissions test and submit your resumé.

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Study block 1

STUDY MODES

Full-time*

DURATION

3 years full-time

LOCATION

Perth

LEARN MORE

curtin.edu/bach-indigpp

* You are required to attend four study blocks on campus per year. See curtin.edu/blockstudy

Overview

The Bachelor of Applied Science (Indigenous Professional Practices) provides you the opportunity to learn in a culturally appropriate environment about Indigenous mental health and community development.

This course aims to empower you to become a role model for positive change in Indigenous health and communities. You will learn how to achieve this through the application of Indigenous knowledge, mental healthcare, community development concepts and practice, and project development, implementation and evaluation.

Graduates may qualify for entry into a bachelor degree with honours and some graduate certificates, graduate diplomas and master degrees.

This course allows you to choose between two majors: Indigenous Community Management and Development, and Indigenous Mental Health Principles and Practice.

Indigenous Community Management and Development

The Indigenous Community Management and Development major aims to provide Aboriginal and Torres Strait Islander students with the knowledge and skills required to bring about effective, culturally appropriate social change in Indigenous services and community settings.

You will learn about innovative community management practices as well as Indigenous way of working and community development principles.

The course covers six main areas of study:

- Project management theories and practice
- Community development processes and practice
- Policy development and implementation issues
- Analysis of the main historical, social, political and economic factors and the ways in which they have influenced contemporary Indigenous society
- Evaluation research
- Organisational management and governance.

Indigenous Australian Mental Health Principles and Practice

The Indigenous Mental Health Principles and Practice major enables you to develop the skills and knowledge necessary to work as an Indigenous mental health practitioner.

It will provide you with comprehensive mental health strategies, skills, knowledge and treatment methodologies to engage with Aboriginal mental health patients.

Career information

Careers

- Community engagement officer
- Indigenous mental health officer
- Policy manager
- Project manager.

Industries

- Community development
- Indigenous mental health
- Education
- Health
- Public relations.

Indigenous Professional Practices (associate degree)

This associate degree gives you the skills required to provide an alternative, inclusive approach to health management that acknowledges First Nations healing practices.

DEGREE

Indigenous Professional Practices Associate Degree

MINIMUM ATAR

Not applicable

PREREQUISITES

None

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 2

STUDY MODES

Full-time, part-time

DURATION

2 years full-time

LOCATION

Perth

LEARN MORE

curtin.edu/ad-indigpp

Overview

Skilled Aboriginal and Torres Strait Islander health workers are in great demand. More Indigenous professionals are needed in the health industry to work within their communities and provide holistic healthcare frameworks.

This course also aims to empower you to become a role model for positive change in Indigenous health. You will learn how to achieve this through the application of Indigenous knowledge, primary healthcare, health promotion, community development concepts and practice, and project development, implementation and evaluation.

If you are already working in a health related position, this course will increase your knowledge and skills to perform more effectively. You can learn the skills required to provide an alternative, inclusive approach to health management that acknowledges Indigenous healing practices.

Graduates may qualify for entry into a bachelor degree with honours and some graduate certificates, graduate diplomas and master degrees.

The course allows you to choose between two majors: Indigenous Community Health and Indigenous Mental Health Worker.

Indigenous Community Health

This major provides Indigenous students with the skills and knowledge necessary to work in the policy, planning, health promotion and project management areas of the Indigenous health industry.

It aims to empower and strengthen the well-being of Aboriginal and Torres Strait Islander communities through a holistic, multidisciplinary approach that encompasses contemporary Indigenous healing practices, Indigenous self-determination in health, the application of Indigenous knowledge, primary health care, health promotion concepts and practices.

This major will enable Indigenous primary health care practitioners to take leadership roles in the formulation and implementation of programs, in particular, through the development and application of Aboriginal Terms of Reference.

Indigenous Mental Health Worker

This major gives you the skills and knowledge necessary to work in Indigenous mental health.

It aims to empower and strengthen the wellbeing of Aboriginal and Torres Strait Islander communities through a holistic, multi-disciplinary approach that encompasses traditional healing practices in the context of mental health best care and treatment modalities.

It provides comprehensive mental health strategies, skills, knowledge and treatment methodologies to engage and inter-relate with Aboriginal community mental health patients who may be suffering with a mental health illness.

Career information

Careers

- Community engagement officer
- Indigenous mental health officer
- Policy manager
- Project manager.

Industries

- Community development
- Indigenous mental health
- Education
- Health
- Public relations.

Health



If you've always wanted to help, heal and have a positive impact on people, Curtin offers a range of practical health sciences courses that can lead to challenging and rewarding careers in the healthcare sector.

Many of our courses are recognised by industry and emphasise applied learning, so you'll be ready to make a difference in your field as soon as you graduate. Depending on your course, you'll have the opportunity to hone your skills overseas in diverse healthcare settings, which will develop your resilience and experience as a healthcare professional.

TRENDS TO WATCH

- Virtual hospitals
- Retail healthcare
- Synthetic data
- Sustainable scanners
- Geroscience

Courses

Advanced Biomedical Sciences

Biomedical Sciences

Exercise and Sport Science

Health Promotion

Health, Safety and Environment

Health Sciences

Laboratory Medicine

Medical Radiation Science

Medicine

Molecular Genetics

Nursing

Nutrition and Food Science

Occupational Therapy

Oral Health Therapy

Pharmacy

Physiotherapy

Psychology

Psychology and Human Resource Management

Social Work

Speech Pathology

See also

Biochemistry (page 115)

Multidisciplinary Science (page 118)

Advanced Biomedical Sciences

Combine an honours degree in science with biomedical research.

DEGREE

Bachelor of Advanced Biomedical Sciences (Honours)

MINIMUM ATAR

90

PREREQUISITES

Chemistry ATAR and Mathematics Methods ATAR

DESIRABLE

Human Biology ATAR, Biology ATAR, Physics ATAR

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

102739H

LEARN MORE

curtin.edu/bach-advbio

Overview

The Bachelor of Advanced Biomedical Science (Honours) is a research-focused degree, designed for high-ATAR students with an interest in biomedical science research.

In your first year, you'll study interprofessional course units with students from other disciplines, alongside units specific to this course.

From your second year, you'll study your chosen major – either in Discovery Bioscience or Clinical Medical Science – and will progress your research skills in experimental design, ethics, statistical analysis, scientific writing, data management and critical interpretation.

You'll undertake project units with strong industry and research collaborations that give you guided practical experience in biomedical research. You'll also participate in a research roadshow in a variety of operational research settings, such as laboratories and clinical trial sites.

There are opportunities to undertake extracurricular activities to further develop your research skills.

In your final year, you'll complete a full-year research program within the laboratory of an approved university, research institute or industry research site.

The two majors are detailed below:

Discovery Bioscience

In Discovery Bioscience, you'll look at ways we're advancing our knowledge of the biological processes that underpin a person's health, including studies in genomics, bioinformatics, transcriptomics, proteomics, metabolomics and lipidomics, and the application of new technologies.

Clinical Medical Science

If you choose Clinical Medical Science, you'll study clinical biosciences and emerging therapies, including population and personalised medicine, and clinical trials. You'll also receive a strong foundation in anatomy, physiology, neuroscience, immunology and regenerative medicine.

Career information

Careers

- Biotechnologist
- Graduate medicine
- Media and science communications officer
- Researcher.

Industries

- Biotechnology
- Education
- Government
- Hospital and medical sector (medical diagnostic laboratories, reproductive technologies).



“I’ve really enjoyed the flexibility of this course; being able to choose units that combine my interests in genetic engineering, immunology and pharmacology. When I graduate, I aim to work in drug discovery to find solutions for the ever-evolving challenges in global health.”

Justin Chan

Bachelor of Biomedical Sciences
(Pharmacology)

Biomedical Sciences

Combine biology with medicine for a career at the cutting edge of health science and innovation.

DEGREE

Bachelor of Biomedical Sciences

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR

DESIRABLE

Chemistry ATAR and Human Biology ATAR or Biology ATAR

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, Semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

102738J

LEARN MORE

curtin.edu/bach-biomed

Overview

The Bachelor of Biomedical Sciences is a highly flexible degree that gives you the freedom to explore different areas of biology related to human health and disease.

Whether you aspire to pursue a career as a clinical physiologist, develop vaccines for infectious diseases, advance cancer or Alzheimer’s research, explore gene sequencing or formulate new pharmaceuticals, this degree lets you tailor your studies to suit your preferred career path.

In the first year of this degree, you will complete foundation studies in areas of biomedical science such as human biology, genetics, cell biology, microbiology, and immunology, alongside complementary learning in chemistry, scientific communication and biostatistics.

In the second and third years, you will branch out into the areas of biomedical science that interest you most. Options open to you include majors in Human Biomedicine, Molecular Genetics, or Pharmacology; as well as specialisations and optional units.

All options combine theory with intensive hands-on, practical sessions in high-quality laboratory facilities, where you will work on real-world scenarios that prepare you for your future career.

You may also undertake industry site visits to provide you with insight into your chosen career path when you graduate.

Majors and specialisations

You can major in one or two of the following areas: Human Biomedicine, Molecular Genetics or Pharmacology.

If you select one major, you can combine your study with a specialisation in Human Pathology, Immunology and Cell Biology, Microbiology, Human Genetics or Pharmacology. You are also able to complete specialisations from other disciplines such as Corporate Governance or Digital and Social Media. The choice is yours!

Human Biomedicine

Biomedicine is the application of biological and physiological principles to clinical practice.

You will learn applied human anatomy, physiology and neuroscience, and gain valuable hands-on laboratory experience using cadaveric specimens and physiology equipment.

If you take the Human Pathology specialisation, you can extend your studies into clinical pathophysiology and neurophysiology, which will broadly prepare you for a career as a clinical physiologist.

Molecular Genetics

Molecular genetics is a rapidly advancing and exciting discipline for the 21st century.

In this major, you will learn about genetics and genomics, and how universal principles and new advances in this area can be applied to improve health outcomes.

You will study molecular biology, human genetic disease, bioinformatics and genetic engineering, learning theory alongside practical laboratory training.

You will also be introduced to cutting-edge technology for molecular and genetic analyses and will develop your skills in critical thinking and scientific communication.

Pharmacology

Pharmacology explores the effects of drugs on living organisms and is the cornerstone for a career in drug discovery and development. It is particularly relevant with the increasing global challenge to develop new drugs against infectious agents.

This major gives you a good understanding of drug action against microorganisms

through computer-based simulations and laboratory work covering molecular, cellular and physiological responses, and modern drug analysis techniques.

You will learn how drugs target specific receptors in tissues and explore the major biochemical pathways that are activated.

You'll also learn about dose-response relationship, toxicity, drug metabolism and elimination, drug design and development, and how genetic variation between populations influences drug response.

Additional units

These are optional areas of study that give you room to further explore your career interests in areas such as reproductive technologies, bioinformatics, forensics and psychology.

Career information

Careers

- Clinical, research or life scientist
- Clinical, research or laboratory technician/assistant
- Physiologist
- Anatomist
- Forensic scientist
- Biotechnologist
- Molecular geneticist
- Sales representative
- Scientific communicator.

Industries

- Clinical Health Services
- Basic and Clinical Research
- Genetic testing
- Biotechnology
- Pharmaceuticals
- Forensics.

Exercise and Sport Science

Develop practical skills and knowledge in physiology, biomechanics, psychology and motor control, to deliver exercise programs for health, wellbeing, performance, and the prevention of injury and disease.

DEGREE

Bachelor of Science (Exercise and Sport Science)

MINIMUM ATAR

70

PREREQUISITES

None

DESIRABLE

Mathematics Applications ATAR, Human Biology ATAR, Physical Education Studies ATAR

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

077744A

LEARN MORE

curtin.edu/bach-exsprhb

Overview

Exercise scientists help people to prevent and recover from injury and disease, maximise the fitness and performance of athletes, promote healthy ageing, and improve people's health and wellbeing.

You will work to promote and educate diverse individuals, communities, and populations on the benefits of exercise that encourages lifelong maintenance of positive exercise behaviours using a person-centred approach that is underpinned and informed by the latest scientific evidence.

This course uses authentic learning practices providing you with the theoretical knowledge and practical skills within each of the foundational pillars of exercise science: biomechanics, physiology, psychology, behaviour change, and motor control and learning.

Foundational knowledge and skills are taught in the first year of the degree. You'll delve deeper into each pillar of exercise science across the second and third year of your degree.

In your final year of study, you will apply your knowledge and skills by completing at least 140 hours of professional practice at two locations. One of these locations will be within our site situated at Cockburn Aquatic and Recreation Centre, whereas the other will be at one of our many industry partners that span elite sport, strength and conditioning, corporate health, clinical exercise physiology, and paediatric exercise.

For high-performing students, this course is the steppingstone to the Master of Clinical Exercise Physiology, which broadens your practise capabilities, and enables you to use exercise to manage and treat chronic conditions. You could also undertake a research honours year where you would manage a research project and contribute to scientific knowledge, while experiencing working as an exercise/sport scientist.

Please note: this is a highly practical course and active participation in practical classes is essential for learning. Some practical classes will involve disrobing, as well as palpation of muscles and bony landmarks for learning anatomy and skills such as anthropometry.

Professional recognition

On graduating, you'll be eligible to apply for accreditation with Exercise and Sports Science Australia.

Career information

Careers

Fitness and performance

- Exercise scientist
- Strength and conditioning coach for community and sub-elite sporting teams.
- Corporate health
- Pre-employment health and fitness assessor
- Workplace well-being coordinator.
- Sport and recreation
- Program coordinator
- Sport developer.

Preventative health/early intervention

- Health promoter
- Cardiac technician.

Industries

- Sporting team
- Corporate
- Defence forces
- Government
- Healthcare centres
- Hospitals
- Industrial and mining
- Research and development.

Health Promotion

Improve the health of people and communities using strategies to address needs, prevent disease and benefit society.

DEGREE

Bachelor of Science (Health Promotion)

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

Any of these ATAR subjects: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics, Psychology

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, online

CRICOS CODE

003779B

LEARN MORE

curtin.edu/bach-hlprom

Overview

In this course you'll gain a keen understanding of social, political, economic and environmental factors that influence health.

You'll discover ways to plan and implement health promotion strategies such as health policy, advocacy, community education or development, and you'll be trained to evaluate their benefits and effectiveness.

In your first year you'll study the foundations of public health including biostatistics, epidemiology and human biology, and health in social and cultural contexts. Throughout your second and third years you'll learn about social justice and how to improve the health of marginalised people. You'll also participate in fieldwork visits and complete an on-campus health promotion project.

In your final year you'll complete a 100-hour professional placement with a health promotion organisation to develop and practice important industry skills and competencies before you graduate. There are also opportunities to progress your skills and expertise in a supportive, professional environment at CERIPH, an internationally acclaimed research centre located at Curtin Perth, as well as optional overseas study tours.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

This course is accredited by the International Union for Health Promotion and Education.

Career information

Careers

- Community development officer
- Health promotion officer
- Policy officer
- Project officer
- Research officer
- Workplace health coordinator.

Industries

- Community health
- Health research
- International aid
- Local and state government
- Non-government organisations.

Health, Safety and Environment

Identify and manage workplace risks to ensure a safe and healthy work environment.

DEGREE

Bachelor of Science (Health, Safety and Environment)

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

Any of these ATAR subjects: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics, Psychology

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE*

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, Malaysia, online

CRICOS CODE

064468A

LEARN MORE

curtin.edu/bach-hlsfenv

* Perth intake shown

Overview

This course prepares you for a diverse career in the expanding area of occupational health and safety. You will learn how to create, maintain and manage a safe and healthy workplace, and develop professional skills in critical thinking, information literacy and technology.

Your first year is interprofessional and taken with other health sciences students.

In your second and third years, you'll learn how to identify and manage risks and hazards, participate effectively in decision-making processes, and improve health and safety to prevent injuries and illness in the workplace.

You will complete a 100-hour placement in your second year and a 150-hour placement in your third year to develop important practical skills and to experience real work environments.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

Nationally accredited by the Australian Occupational Health and Safety Education Accreditation Board (Safety Institute of Australia) and internationally accredited by the Institute of Occupational Safety and Health (UK).

Career information

Careers

- Health and Safety Advisor
- Health and Safety Specialist
- Health and Safety Coordinator
- Health, Safety and Environment Officer
- Health and Safety Manager
- Health and Safety Superintendent.

Industries

- Oil and gas production
- Mining
- Construction and infrastructure
- Manufacturing
- Government
- Transport.

Health Sciences

Gain a solid grounding in public health, and specialise in analysing big data to inform public health policies; or in health sciences to work in health management and planning.

DEGREE

Bachelor of Science (Health Sciences)

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

Any of these ATAR subjects: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics, Psychology

STAT

Accepted

PORTFOLIO ENTRY

Accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, online

CRICOS CODE

003691K

LEARN MORE

curtin.edu/bach-hlthsc

Overview

This multidisciplinary course will help you begin your public health career, where you'll work to achieve better health through the prevention of disease and disability at the community or whole population level, rather than just working with individuals.

You'll learn about how social, economic and environmental factors affect health and wellbeing, and choose from a broad range of units to begin building your public health career. This includes units focusing on big data and health, epidemiology and biostatistics, healthcare systems in Australia and health promotion planning.

Due to the range of units, this course also acts as a pathway into other health courses with more competitive admission criteria, including pharmacy, speech pathology, physiotherapy or occupational therapy.

Choose your specialisation

There are a number of specialisations available in the third year of this course – units designed to hone your knowledge and skills in a particular area. You can choose to specialise in health data or health sciences, or select an Accelerated Bachelor Master pathway.

Health Data

In this specialisation, you'll learn how to analyse big data to reveal patterns and trends, and learn about data capture, cyber security, data visualisation and how artificial intelligence and machine learning are being used in health. You'll also grow your interpretive and decision-making skills and know how to present your results effectively to different audiences.

Health Sciences

This specialisation lets you combine studies in public health disciplines including health promotion, epidemiology and biostatistics, environmental health, occupational health and safety, and global public health administration with a range of optional units. Career outcomes are diverse and you'll be able to tailor your learning to suit the healthcare career of your choice.

Accelerated master degree pathway

In this pathway you'll complete four units from a master degree in your third year, and continue on with the master degree in your fourth year. The time taken to complete an Accelerated Bachelor Master Degree is 6 months shorter than completing both degrees individually.

Specialisations available in this pathway are:

- Public Health
- Health Administration
- Sexology
- Occupational Health and Safety.

Note: You will need a course-weighted average of 60 or higher after completing 300 credit points to qualify for this pathway.

Professional recognition

When you graduate, you can apply to become a member of the Public Health Association of Australia, the Health Services Research Association Australia and New Zealand, and the Australasian Epidemiological Association.

Career information

Careers

- Administrative officer
- Community development officer
- Data management officer
- Policy officer
- Project officer
- Research officer.

Industries

- Health research
- Local and state government
- Non-government organisations.

Laboratory Medicine

An exciting course for aspiring professional medical scientists, focusing on pathology and diagnosing disease.

DEGREE

Bachelor of Science (Laboratory Medicine)

MINIMUM ATAR

70

PREREQUISITES

None

DESIRABLE

Any of these ATAR subjects: Chemistry, Mathematics Applications, Human Biology, Biology

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

064464E

LEARN MORE

curtin.edu/bach-labmed

Overview

Laboratory medicine teaches you about pathology (the origin, nature and course of disease) and the diagnosis of disease.

Your first year is interprofessional and taken with other health sciences students. Your second year develops your knowledge of the cellular and tissue aspects of pathology, and the individual disciplines of laboratory medicine.

In your third and fourth years, you'll gain extensive field experience and focus on three of the following major disciplines: anatomical pathology, clinical biochemistry, haematology and transfusion science, immunology and medical microbiology.

You'll learn in Curtin's PC2 laboratory facility, where you can process and analyse clinical samples, identify microbes and report results in the same way as a real pathology laboratory.

You'll also develop your practical skills when you undertake a 24-week professional placement in a diagnostic pathology laboratory.

Professional recognition

Professionally accredited by the Australian Institute of Medical Scientists.

Career information

Careers

- Medical scientist.

Industries

- Community health
- Education
- Health technology
- Manufacturing
- Private and public hospitals
- Research centres and laboratories.

Medical Radiation Science

Learn to use medical radiation to help diagnose, treat and monitor medical conditions and provide cancer therapy.

DEGREE

Bachelor of Science (Medical Radiation Science)

MINIMUM ATAR

90

PREREQUISITES

Mathematics Methods ATAR and Physics ATAR

DESIRABLE

Mathematics Specialist ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

088215B

LEARN MORE

curtin.edu/bach-scimrs

Overview

Medical radiation science enables health professionals to diagnose, treat and monitor medical conditions and provide cancer therapy.

Rapid technological advances in these areas mean that the medical imaging and radiation-therapy sector is continuing to expand.

This course comprises foundation studies required for medical radiation science practice – including medical physics, anatomy, physiology and evidence-based practice – and a combination of subjects from science and health sciences that will give you a grounding in the healthcare environment.

The first year is interprofessional and taken with other health sciences and science students. From second year, you will specialise in one of two majors: Medical Imaging or Radiation Therapy.

You'll develop the ethical, medico-legal, cultural awareness and communication abilities needed to take responsibility for the care of individual patients.

You'll undertake 45 weeks of clinical experience during the course, in hospitals, private practices and rural and regional sites.

This course is highly competitive and has limited places due to clinical placement requirements.

Medical Imaging

Medical imaging professionals work with sophisticated diagnostic imaging modalities – including computed and digital radiography, fluoroscopy, computed tomography, magnetic resonance imaging, mammography and angiography equipment.

They produce images that are used to confirm or exclude a medical diagnosis, to advise on a treatment or illness, monitor patient progress, or provide medical screening.

Radiation Therapy

Radiation therapists have an integral role in the treatment, care and management of patients undergoing radiation therapy treatment, primarily in treating cancer types.

They use a range of complex technologies and equipment to design, develop and deliver radiation therapy treatment.

Professional recognition

Professionally recognised by the Medical Radiation Practice Board of Australia.

Career information

Careers

- Medical imaging professional
- Radiation therapist.

Industries

- Clinical research
- Education
- Health and safety
- Private practice
- Private, public and regional hospitals
- Software and equipment supply
- Support services.

Medicine

Train to be a doctor and pursue a diverse career in medicine.

DEGREE

Bachelor of Medicine, Bachelor of Surgery

MINIMUM ATAR

95

PREREQUISITES*

Chemistry ATAR

DESIRABLE

Mathematics Applications ATAR,
Mathematics Methods ATAR, Mathematics
Specialist ATAR

STAT

Not accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time

DURATION

5 years full-time

LOCATION

Perth

CRICOS CODE

105741A

LEARN MORE

curtin.edu/bach-mbbs

* Additional pathways are available to Aboriginal and Torres Strait Islander and rural and equity applicants.

When you apply for this course you may be required to submit supplementary documents.

Please visit curtin.edu/bach-mbbs and read the MBBS Admissions Guide for more information.

Overview

This course can lead to many careers in the medical profession. Your studies will focus on biomedical sciences and clinical sciences, as well as healthcare in settings such as primary care, hospitals and aged care. You will also study Indigenous health, population health and professional development concepts.

In your first year, you'll complete discipline-based subjects in medicine and begin developing skills in clinical communication. You will also develop skills in interprofessional practice by learning alongside other health sciences students.

Your second and third years will be devoted to a more intensive study of medical knowledge that focuses on the structure and function of the human body in health and disease.

In your fourth year, you'll transition from the Curtin campus into a clinical setting, and work with people from all age groups under clinical supervision in hospital and community settings, including in rural and remote locations.

Your final year will be in clinical settings where you will work as a member of a healthcare team in preparation for your internship once you graduate.

Additional pathways to study medicine are available for Indigenous and Torres Strait Islander applicants, and for rural and equity applicants.

Professional recognition

This course is accredited by the Australian Medical Council.

Career information

Careers

- Medical practitioner.

Industries

- Aged care
- Consultancy
- Community health
- General practice
- Management
- Mental health
- Pathology
- Research
- Rural health.



“I’ve really enjoyed the challenge of studying medicine. I’ve been fortunate to learn in beautiful, rural locations like Kalgoorlie and Broome where I’ve connected with other Indigenous mobs, as well as my own. I’m currently working at Fiona Stanley Hospital with amazing mentors and hope to become an orthopaedic surgeon.”

Isaiah Kamid

Bachelor of Medicine, Bachelor of Surgery

Molecular Genetics

Molecular genetics is a rapidly expanding area that is contributing to solutions for human, animal and plant diseases; environmental degradation; food security and biosecurity; and other global challenges.

DEGREE

Bachelor of Advanced Science (Molecular Genetics) (Honours)

GUARANTEED ATAR

95

PREREQUISITES

Mathematics Methods ATAR and Chemistry ATAR

DESIRABLE

Mathematics Specialist ATAR, Biology ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

095949E

LEARN MORE

curtin.edu/bach-advngen

Overview

This is a Bachelor of Advanced Science (Honours) course, designed for high-performing students to pursue their interest in science through a core of research, leadership and entrepreneurship.

Genetics is a rapidly growing science discipline and now underpins diverse jobs related to biology. Around the world, governments are investing heavily in genetics research to help improve the food supply, for example, which is increasingly reliant on genetically modifying the production of plants and animals.

Trace amounts of DNA in the environment (eDNA) are being used to provide more complete estimates of biodiversity in terrestrial and marine environments. Ancient DNA is being extracted from fossils to understand the evolution of life and the impacts of ancient climate and ecosystem change. DNA 'chips' can detect the expression of thousands of genes enabling rapid diagnosis of many diseases in a single test. Before long, individuals will have access to their own DNA sequence and learn their propensity to develop particular diseases.

The deep knowledge of genetic processes and bioinformatics you will gain in this course will provide opportunities for careers and research related to human, animal and plant health, environmental health and food security.

The course offers a flexible and personalised approach to studying genetics. You'll be able to explore this field through for-credit immersive research experiences, industry placement and/or interdisciplinary team-based projects. You'll also gain practical experience programming in both R and Python and through exposure to data science professionals.

In your second and third year you'll have the opportunity to source internal and external internships and immersive work experience that can be used for course credit. Your course will culminate in a capstone experience in which you can pursue genetics projects ranging from pure research through to translational (entrepreneurial) science.

Career information

Careers

- Agricultural and food scientist
- Bioinformatician
- Biotechnologist
- Ecologist
- Plant and animal geneticist.

Industries

- Agriculture and agribusiness
- Environment and sustainability
- Food security
- Medical and healthcare
- Research and development.

Nursing

Become a registered nurse and give comprehensive care to patients in a variety of settings.

DEGREE

Bachelor of Science (Nursing)

MINIMUM ATAR

70

PREREQUISITES

None

DESIRABLE

Human Biology ATAR, Integrated Science ATAR

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE¹

Semester 1

STUDY MODES

Full-time, part-time

DURATION

3 years 6 months

LOCATION²

Perth, Albany, Kalgoorlie

CRICOS CODE

041794K

LEARN MORE

curtin.edu/bach-nurs

¹ Perth intake shown

² Only the EN to RN stream is available in Kalgoorlie and Albany.

Overview

This course provides a wide-ranging program of simulated practice and fieldwork, advanced clinical skill development, biological, behavioural and nursing sciences, and the opportunity for an international study experience.

Your studies will focus on developing the skills and knowledge you'll need to meet the demands of our changing healthcare system.

You will be encouraged to be an active, contributing member of an interprofessional healthcare team, which will give you the opportunity to study with different nursing and medical specialists in a range of fields.

You will gain strong, practical skills by completing a minimum of 840 hours of clinical placements in hospitals, private practice and rural health settings.

Alternative streams under the Bachelor of Science (Nursing) are offered to enhance your qualification if you are already an enrolled or registered nurse:

- Enrolled Nurse to Registered Nurse Stream (domestic only)
- Registered Nurse Conversion - Australian Registration Nurse Stream (domestic and international)
- Registered Nurse Conversion - Non-Registration Nurse Stream (domestic only).

To study one of these streams, you must first apply for the Bachelor of Science (Nursing) and fir credit for recognised learning (CRL). When you have your CRL, you can then select the stream of your choice.

Please note: a break from study of more than one semester may incur additional clinical practice.

Professional recognition

Graduates can apply for registration to become a Registered Nurse (Division 1) with the Nursing and Midwifery Board of Australia.

Career information

Careers

- Registered nurse.

Industries

- Community health agencies
- Private hospitals
- Public hospitals.

Nutrition and Food Science

Learn the science of nutrition and the best way to promote healthy diet behaviours.

DEGREE

Bachelor of Science (Nutrition and Food Science)

MINIMUM ATAR

70

PREREQUISITES

Any ATAR subject from the following list: Biology, Chemistry, Human Biology, Integrated Science or Physics

DESIRABLE

Chemistry ATAR, Mathematics Applications ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

003887J

LEARN MORE

curtin.edu/bach-nutr

Overview

In this course you will not only learn the science behind nutrition, but also how you can improve the nutritional status of populations. You'll also develop high-level communication and teamwork skills.

Your first year is interprofessional and taken with other health sciences students. In your second year you will choose between two streams: Nutrition or Food Science.

Nutrition

In this stream you will develop your understanding of the associations between diet and health outcomes.

You'll explore the social and cultural influences that impact dietary decisions within populations. You'll also conduct a nutrition research project.

Course outcomes from the Nutrition stream meet entry requirements for Curtin's Master of Dietetics course.

In Australia, there is a distinction between dietitians and other occupations in the nutrition and food science field including that of a nutritionist. To qualify as a dietitian you must complete postgraduate studies.

Food Science

In this stream you will focus on the nature and chemical composition of foods, ingredient behaviour under different processing conditions, and the application of this knowledge to improve the safety and quality of food.

You'll undertake field trips throughout the course and a work placement with an external organisation.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

Graduates of the Nutrition stream are eligible to apply for membership of the Public Health Association of Australia and apply as an Associate Nutritionist with the Nutrition Society of Australia. Graduates of the Food Science stream are eligible to apply for membership of the Australian Institute of Food Science and Technology.

Career information

Careers

- Dietitian
- Food scientist
- Food technologist
- Home economist
- Nutritionist.

Industries

- Community health
- Education and research
- Food manufacturing
- Government lobby groups
- Health and food fitness sector
- Research and development.

Occupational Therapy

Help people who have experienced injury, illness or disability to engage in occupations and activities.

DEGREE

Bachelor of Science (Occupational Therapy) (Honours)

MINIMUM ATAR

83

PREREQUISITES

Any ATAR subject from the following list: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics, Psychology or Physical Education Studies.

DESIRABLE

Human Biology, Physics ATAR, at least Mathematics Applications ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

094933K

LEARN MORE

curtin.edu/bach-occt

Overview

As an occupational therapist you will work with people of all ages who may have experienced injury, illness or disability. You can help people to engage in occupations or activities that are meaningful to them and achieve independence, better health, wellbeing and satisfaction in their lives.

In this course you will learn to identify physical, psychosocial, cognitive, behavioural and environmental factors that can help or hinder a person's participation in everyday activities. You'll learn to collaborate with other health professionals to provide cross-discipline care that is focused around the client and their needs.

You will study in laboratories, learning spaces and resource rooms that are tailored for learning the skills required to work in occupational therapy.

Approximately 1,000 hours of fieldwork practice is undertaken throughout the course in a variety of clinical and industry settings.

Professional recognition

This course has professional links to the World Federation of Occupational Therapists, Occupational Therapy Board of Australia, Australian Association of Occupational Therapists and Occupational Therapy Australia (WA).

Career information

Careers

- Occupational therapist.

Industries

- Acute care
- Injury management
- Mental health
- Rehabilitation and aged care
- Working with children.

Oral Health Therapy

Promote oral health in the community and provide a range of clinical dental services.

DEGREE

Bachelor of Science (Oral Health Therapy)

MINIMUM ATAR

83

PREREQUISITES

None

DESIRABLE

Human Biology ATAR or Biology ATAR

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

074565F

LEARN MORE

curtin.edu/bach-oralht



Overview

Promote oral health in the community and provide a range of clinical services, including dental examinations, preventative treatments, scaling and cleaning, the management of gum disease, fillings, simple extractions for children, dental radiography, taking dental impressions and a range of orthodontic duties.

This course starts with a study of preventive dentistry and oral health therapy techniques, together with relevant health, research and communication units that form part of your interprofessional first year.

In your second and third years your studies will combine theory, practical sessions and clinical practice.

You will undertake more than 750 hours of clinical training during the course in a variety of settings such as the Oral Health Centre of Western Australia, community clinics, private dental practices and the Dental Health Services' clinic.

When you graduate you will have the practical industry skills and experience you need to start your career in oral health therapy with confidence.

Professional recognition

Graduates are eligible to apply for registration as an oral health therapist with the Dental Board of Australia.

Career information

Careers

- Oral health therapist.

Industries

- General and specialist private dental practices
- Government school dental clinics.

Pharmacy

Develop pharmacy practice skills to prepare and dispense medicines, and offer advice.

DEGREE

Bachelor of Pharmacy (Honours)

MINIMUM ATAR

80

PREREQUISITES

Chemistry ATAR and Mathematics Applications ATAR

DESIRABLE

Human Biology ATAR or Biology ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

096304A

LEARN MORE

curtin.edu/bach-pharm

Overview

The goal of pharmacy care is to maximise positive healthcare outcomes and improve patients' quality of life with minimum risk.

In your first year you will learn the foundations of biochemistry, physiology and pharmacy practice. Your first year will also cover interprofessional healthcare and you will study alongside students from other health science degrees.

In your following years, you will study pharmaceuticals, medicinal chemistry, antimicrobial chemotherapy, pharmacology and pharmacotherapy. You will also continue to develop your pharmacy practice skills.

You will complete a minimum of 10 weeks (375+ hours) of clinical placements during the course and there are opportunities for you to take your placements interstate and overseas in hospitals, the community or in industry.

Following graduation, you will need to complete an internship of 1,824 hours (approximately one year full-time) before you can register as a pharmacist with the Australian Health Practitioner Regulation Agency (Ahpra).

Professional recognition

Professionally accredited by the Australian Pharmacy Council.

Career information

Careers

- Pharmacist
- Pharmacologist.

Industries

- Clinical pharmacy
- Community care
- Hospital pharmacy
- Retail pharmacy
- Research.



Physiotherapy

Become a qualified physiotherapist who can provide hands-on treatment, and devise exercise and health management strategies.

DEGREE

Bachelor of Science (Physiotherapy) (Honours)

MINIMUM ATAR

90

PREREQUISITES

Any ATAR subject from the following list: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics or Psychology

DESIRABLE

Mathematics Applications ATAR, Physical Education Studies ATAR and Health Studies ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

108991C

LEARN MORE

curtin.edu/bach-phyth

Overview

In this course, you'll learn how to prevent, treat and manage physical injuries and assist people of all ages with musculoskeletal conditions and chronic health conditions. You'll graduate with an integrated honours-level qualification, ready to make a difference as a physiotherapist or to continue your studies as a researcher in a field of physiotherapy.

Your first year is interprofessional, giving you the skills you need to work as part of a dynamic healthcare team, while learning about the physical, structural and physiological aspects of human form and movement.

In the following years, you'll study musculoskeletal, cardiopulmonary cardiorespiratory and neurological sciences, as well as gerontology, paediatrics, gender health issues and pain management.

Throughout the course, you will learn how to select the best treatment option by analysing the available research evidence, the perspective of the person and the health environment they are in.

You'll become proficient in treating acute and chronic conditions and disabilities using hands-on treatment, prescriptive exercise and lifestyle advice. You'll also build essential soft skills, such as empathic listening to help accurately diagnose an issue, problem-solving to address clinical obstacles, and reflective practice to critically analyse evidence, and monitor the success of your management strategies.

To put your skills into practice, you'll develop your practical skills in laboratory classes and complete 1,100 hours in supervised placements in hospitals and community settings, including those in rural and remote locations.

You will also become part of a research group with your peers in your third and fourth years, and work to complete and potentially publish a small research study under staff supervision.

Professional recognition

Graduates can apply for professional registration with the Physiotherapy Board of Australia.

Professional recognition

Careers

- Physiotherapist
- Physiotherapy researcher.

Industries

- Education
- Government
- Health management
- Hospitals
- Local community practice
- Nursing homes
- Rehabilitation centres
- Research
- Schools
- Sports organisations.

Psychology

Find out how the human mind thinks and why we behave the way we do.

DEGREE

Bachelor of Psychology

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

Any of these ATAR subjects: Mathematics Applications, Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics, Psychology

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

041070B

LEARN MORE

curtin.edu/bach-psych

Overview

Learn about perception, cognition, emotion, personality, behaviour and interpersonal relationships, and how psychologists examine, explain and predict what people do as individuals and in groups.

Your first year is interprofessional and taken with other health sciences students. In your second year you will gain greater knowledge in learning, motivation, perception, child development and social psychology.

You will prepare a research proposal in your third year and develop advanced knowledge in abnormal psychology, adult development, community psychology, cognition, cross-cultural psychology, Indigenous psychology and individual differences.

Your fourth year includes a year-long research project and you will develop skills in areas such as program evaluation, psychological assessment, and counselling.

Note on fourth year: Due to stringent accreditation requirements, you must attain a minimum credit average in your second and third year core psychology units to continue into the fourth year of the course. If you do not attain the credit average required, you will graduate at the end of the third year with the intermediate award, Bachelor of Science (Psychology). High-achieving students may be offered a place in the honours program.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

This course is accredited by the Australian Psychology Accreditation Council. On graduation from the fourth year of the program, you are eligible to apply for an associate membership of the Australian Psychological Society.

For full general registration with the Psychology Board of Australia, you must complete a further two years of training. This can be via one of two pathways: An accredited one-year master program and one-year internship as a provisionally registered psychologist, followed by the National Psychology Exam; or an accredited two-year master program.

Career information

Careers

With further study:

- Registered psychologist
- Endorsed psychologist.

Industries

- Government
- Hospitals
- Local community
- Not-for-profit sector
- Schools
- Sports organisations.



Psychology and Human Resource Management

Use your knowledge in psychology to help resolve issues in the workplace, recruit and engage employees and improve individual and team performance.

DEGREE

Bachelor of Science (Psychology and Human Resource Management)

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLE

Mathematics Applications ATAR

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

080702G

LEARN MORE

curtin.edu/bach-psychrm

Overview

This course provides a good basis in the scientific discipline of psychology alongside applications in human resource management professions.

It equips you with highly marketable knowledge and skills that allow you to engage with a broad range of managers, professionals and consultants.

You'll graduate with the necessary skills to work in human resource management, health and community services, employment and training, welfare agencies, and development both in government and private enterprise.

You'll also be prepared to pursue graduate studies in either professional application or research.

To become a registered psychologist after graduating from this degree, you will need to complete a further year of psychology study and then two years of skills-based training.

Professional recognition

This course is accredited by the Australian Psychology Accreditation Council and graduates can also apply for professional membership to the Australian HR Institute (AHR).

Career information

Careers

- Human resources officer
- Public relations officer
- Recruitment consultant.

and with further study:

- Registered psychologist
- Endorsed psychologist.

Industries

- Government
- Hospitals
- Local community
- Not-for-profit sector
- Schools.

Social Work

Develop skills to help individuals and groups, and promote positive relationships.

DEGREE

Bachelor of Social Work

MINIMUM ATAR

70

PREREQUISITES

None

DESIRABLE

None

STAT

Accepted

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

068620K

LEARN MORE

curtin.edu/bach-scwk

“The community within the social work degree makes it special. Spending hours with like-minded people who constantly support each other is really motivating.”

“I have been able to develop an array of skills allowing me to be confident in an area like counselling but also in a project development role. This level of diversity and transferable skills obtained within my degree has made me feel prepared to move into my professional career in either counselling or mental health intervention development.”

Jarra Kittow

Bachelor of Social Work (Honours)

Overview

Social workers are committed to equality, human rights and social change. They work with individuals, groups and communities to address barriers that impact people's quality of life, promote positive relationships, and advocate for human rights and social change at the societal, individual, policy and legislative levels.

This course gives you the skills you need to work in these areas. You will study in-depth human behaviour and complex social processes; and draw on knowledge from a range of disciplines including sociology, psychology, politics, philosophy, health and economics, to learn how people engage with one another, their communities and society.

You will develop the skills and values necessary to counsel individuals and groups, and to work competently with children, young people, adults, the elderly and people from different ethnic and cultural backgrounds.

Two supervised fieldwork placements (totalling 1,050 hours over four years) allow you to apply your learning in work environments and develop your professional identity.

Professional recognition

Graduates of this accredited course are eligible for membership of the Australian Association of Social Workers, the WA Society of Professional Social Workers, and the International Federation of Social Workers, and may work in many countries.

Career information

Careers

- Community cultural development officer
- Community liaison officer
- Community support worker
- Mental health worker
- Outreach worker
- Social worker
- Welfare case worker.

Industries

- Advocacy and legal support
- Community corrections and juvenile justice
- Disability and rehabilitation
- International development and assistance
- Services for the ageing
- Services for migrants and refugees
- Working with Indigenous communities.

Speech Pathology

Learn to diagnose and treat people with communication, speech, swallowing and feeding difficulties.

DEGREE

Bachelor of Science (Speech Pathology) (Honours)

MINIMUM ATAR

80

PREREQUISITES

Any ATAR subject from the following list: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics or Psychology

DESIRABLE

Mathematics Applications ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time, part-time*

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

0100583

LEARN MORE

curtin.edu/bach-speech

* Except the final year, which is full-time only.

Overview

Speech pathologists work with many different people and a variety of different communication challenges, for example giving feeding advice to a mother whose baby has a cleft palate, helping a child with a stutter to speak more fluently or assisting an adult who has had a stroke or a brain injury to regain their communication skills.

This course gives you the skills you need to work in this field, developing your understanding of typical and acquired communication development, swallowing disorders and clinical practice in speech pathology.

Your first year is interprofessional and taken with other health sciences students. Your studies will then focus on the science and anatomy of speech and language, and ways to assess, manage and prevent functional impairment.

You will develop practical skills and apply your learning by completing supervised placements in Curtin's on-campus clinics and in a range of community settings. You'll manage a research project in your final year and graduate with an honours degree.

Professional recognition

On graduating you are eligible for membership with Speech Pathology Australia.

Career information

Careers

- Speech pathologist.

Industries

- Education and training
- Health care
- Public administration and safety
- Social assistance.

Information technology



TRENDS TO WATCH

- The digital immune system
- Next-gen wireless
- Super apps
- The metaverse and web 3.0
- Industrial internet of things



Pursue a future-focused career in technology. Learn how to program computers, administer networks and create design software and multimedia. Develop computer games and use artificial intelligence in real-life situations or discover how to protect computers and systems from hackers.

Depending on your course, you may be able to transfer to one of our overseas campuses or partner institutions during your studies.

Courses

Computer Systems and Networking

Computing

Data Science

Information and Communication Technology

Information Technology

Software Development

Software Systems Engineering

See also

Animation and Game Design (page 47)

Business Information Systems (page 56)

Digital and Social Media (page 39)

Digital Experience and Interaction Design (page 48)

Computer Systems and Networking

Expand computer system capabilities and learn how to build the networks of the future.

DEGREE

Bachelor of Technology (Computer Systems and Networking)

GUARANTEED ATAR

70

PREREQUISITES

At least Mathematics Applications ATAR

DESIRABLE

Mathematics Methods ATAR or Mathematics Specialist ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE*

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, Malaysia

CRICOS CODE

041280C

LEARN MORE

curtin.edu/bach-compsysnet

* Perth intake shown

Overview

Computer systems and network administrators are responsible for the configuration and reliable operation of computer networks, which form the backbone of modern information systems.

This degree course will provide you with the knowledge and skills required to pursue career opportunities in this rapidly expanding field.

You'll learn about computer network design and development technologies, focusing on the design and support of distributed computer and telecommunications networks.

The course integrates current developments in wired and wireless networking and provides a comprehensive view of the industry. You'll develop skills in network design and management, and the convergence of computer hardware, embedded systems, IT, technical support, real-time systems, software and telecommunications.

You'll also learn about the internet of things (IoT) – a network of devices connected to the internet on a global scale. The IoT is expanding rapidly, and it is increasingly critical for professionals to understand how it works and how to harness its power to improve business. This course will therefore enable you to apply technical knowledge across IoT-related functions in the workplace.

The course includes certification-based training with IT leaders. You'll graduate with the skills to expand the capabilities of networks already in place and to build new ones.

Double degree

You can study this course as a double degree with the Bachelor of Information Technology.

Professional recognition

Graduates meet Engineers Australia's Stage 1 Competency Standard for Engineering Technologists.

Career information

Careers

- Industrial network engineer
- IT professional
- Network and system administrator
- Systems designer
- Telecommunications manager.

Industries

- Finance and insurance
- Government
- Mining and production operational technology
- Professional, scientific and technical services
- Public administration and safety.

Computing

Match your computer career aspirations with options in computer science, cyber security and software engineering.

DEGREE

Bachelor of Computing¹

GUARANTEED ATAR

80

PREREQUISITES

Computer Science and Cyber Security majors: Mathematics Methods ATAR
Software Engineering major: Mathematics Applications ATAR.

DESIRABLE

Mathematics Methods ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE²

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, Dubai, Malaysia, Singapore, Sri Lanka

CRICOS CODE

0100817

LEARN MORE

curtin.edu/bach-comp

1. Computing can also be studied as part of the Bachelor of Advanced Science (see page 113).

2. Perth intake shown.

Overview

This course will equip you with high-level knowledge of computer systems and processes involved in software development and maintenance.

It covers aspects of modern computing, commencing with fundamental programming and theoretical knowledge; and followed by specialisation in computer science, cyber security or software engineering.

You'll use C and Java as the tools for learning core concepts such as object orientation and algorithms. Linux skills are taught throughout the course, starting with the basics and progressing to advanced topics.

This degree is designed to prepare you for careers in computing. As such, Curtin works closely with industry partners both to optimise course content and provide final-year placement opportunities to suitable students.

Students who perform well in their first year of the course can apply to transfer to the Bachelor of Advanced Science (Computing) course. Note that acceptance is not automatic.

Computer Science

This major provides in-depth knowledge of software design, algorithm analysis, artificial intelligence, computer communications, databases and graphics.

You will gain the skills required to build operating systems and design new programming languages. Being mathematically based, computer science has a strong emphasis on logic and reasoning.

Strong performance in the first year of this major may allow transfer into the Bachelor of Advanced Science (Honours) course. (An interview is required.)

Cyber Security

This major focuses on the key concepts and challenges in data protection and computer software security.

You will examine both the high- and low-level practical aspects of computer security. High-level aspects include cryptography theory, data access policy development and security program management. Low-level aspects include computer forensics, network intrusion detection and incident handling.

Graduates have the skills to identify and implement appropriate applications for specific scenarios, as well as an understanding of issues related to the protection of individual rights.

Software Engineering

This major focuses on the software development life-cycle, but goes beyond programming to evaluate and meet customer needs, and to design and test software.

You'll develop design techniques and project management skills to solve real-world problems and build reliable, efficient large-scale software systems.

Professional recognition

Graduates can apply for accreditation from the Australian Computer Society.

Career information

Careers

- Computer programmer
- IT professional
- Computer security professional
- Software engineer/developer.

Industries

- Applications and software development
- Game design and development
- Cyber security
- IT analysis.



“I chose Curtin because the business school is highly regarded worldwide.

“The course offers students the chance to solve real-world problems and plenty of networking opportunities. My lecturers have really developed my passion for technology and given me the skills to find work as a systems analyst or program developer when I graduate.”

Bhakti Hirani

Bachelor of Commerce (Information Technology and Information systems)



Data Science

Find the key to innovation, by analysing big data to predict future trends and inform industry decisions.

DEGREE

Bachelor of Science (Data Science)*

MINIMUM ATAR

70

PREREQUISITES

Mathematics Methods ATAR

DESIRABLE

Mathematics Specialist ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-datasc

* Data Science can also be studied as part of the Bachelor of Advanced Science (see page 113).

Overview

Data scientists collate and analyse large volumes of data and communicate their findings to a range of audiences. Their ability to use big data to predict future trends is becoming an essential part of decision making in business and government.

Data is being generated at an unprecedented rate and its availability will continue to increase. Every industry is using large volumes of data – from predicting weather patterns and optimising harvesting in agriculture, to improving patient diagnosis in the health industry, to enhancing the management of remote infrastructure in mining.

This is a multidisciplinary major. It combines studies in computing, emerging internet technologies, media and statistics. You will gain a foundation in programming and statistics, which will form the basis of higher-level studies in data mining, data security and computer simulation.

This course builds your capacity to extract, analyse and visualise large volumes of data and communicate analytical outcomes to a range of audiences. You'll graduate equipped to enter a range of industries where data science is key to innovation.

In keeping with Curtin's strong links with industry, this course has an industry advisory group that provides guidance about the course content. The group comprises representatives from the resources sector, management consulting, data analytics services and spatial data product developers, and enterprises such as Optika Solutions and PwC.

Career information

Careers

- Data analyst
- Data scientist.

Industries

- Agriculture and environment
- Arts
- Economics, business, banking and finance
- Geographic information science
- Government
- Health science
- Media
- Mining
- Oil and gas
- Supply chain logistics
- Technology.

Information and Communication Technology

Gain the advanced knowledge and skills to problem-solve issues in computers and computer networks.

DEGREE

Bachelor of Science (Information and Communication Technology)

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR or equivalent

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-ict

Overview

Professional staff with ICT skills that complement a particular career discipline are increasingly advantageous to many industry and government sectors.

In this course you will learn how modern computer systems connect, operate and are programmed. You'll learn the setup and maintenance of wired and wireless networks, the configuration and hardening of networked computers, and general programming.

You'll gain the expertise to improve the efficiency of computer networks and solve network issues, particularly those relevant to small and medium enterprises (SMEs), and the automation and process control that underpin Internet of Things (IoT) innovations.

The skills you'll gain are ideal for SMEs that require agile professional staff with discipline expertise and network support skills. When you combine Information and Communication Technology with a strong industry-related discipline, you'll be equipped with the skills to customise networks and develop proprietary industry and organisational systems.

Artificial Intelligence and Internet of Things are the specialisations that best complement this degree.

Career information

Careers

- ICT specialist
- Computer programmer
- Computer education
- Database design
- IoT (internet of things) engineer
- IT language development
- Network technician
- Software engineer/developer.

Industries

- Applications and software development
- Business and finance
- Cybersecurity
- Education
- Network engineering.

Information Technology

This course covers fundamental programming and security skills of modern computing and computer networks.

DEGREE

Bachelor of Information Technology

GUARANTEED ATAR

70

PREREQUISITES

Mathematics Applications ATAR or equivalent

DESIRABLE

Mathematics Methods ATAR or equivalent

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE*

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, Malaysia, Sri Lanka

CRICOS CODE

0100818

LEARN MORE

curtin.edu/bach-infotech

* Perth intake shown.

Overview

This course covers fundamental programming and security skills of modern computing and computer networks, specialising in various aspects of distributed computing.

You will use Python as a tool for learning network and other programming. Linux skills are taught throughout the course, starting with the basics and progressing to advanced topics.

You'll develop a sound knowledge of computer systems and processes involved in software development and maintenance.

This degree is designed to prepare you for careers in high-demand areas of computing. Curtin works closely with industry partners both to optimise course content and provide final-year placement opportunities to suitable students.

If you perform well in the first year of this course you can apply to transfer to the Bachelor of Computing course. If you perform exceptionally well, you can apply to transfer to the Bachelor of Advanced Science (Computing) course, although acceptance is not automatic. In both cases, full credits will be transferred to the new course.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

This course is accredited by the Australian Computer Society.

Career information

Careers

- Computer programmer
- IT professional
- Computer security professional
- Software engineer/developer.

Industries

- Applications and software development
- Cyber security
- IT analysis.

Software Development

Develop advanced knowledge and skills in software development for agile careers in industries ranging from agriculture to entertainment.

DEGREE

Bachelor of Science (Software Development)

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR or equivalent

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-softdev

Overview

Computing skills enhance employability in many areas of science, especially in the great majority of industries and organisations that rely on efficient and secure computer systems.

In this course you will learn all the core components required to develop complex computer applications for small-to-medium enterprises (SMEs) in particular.

You'll learn about programming, algorithms, and the entire development cycle – from gathering requirements to testing. You'll also learn about application development for the Apple device ecosystem, and your learning will be informed by knowledge at the forefront of software development in general.

The skills you'll gain in this course are ideal for positions in SMEs where programming is valuable as a complementary science expertise. When you combine Software Development with a strong industry-related discipline, you'll have the skills to customise or develop proprietary systems and software for that industry. For example, if you also major in Agriculture Science, you'll be well placed to contribute to the development of digital systems required for modern agriculture. Or, if you choose to major in Chemistry, your combined skill sets will be ideal for an organisation seeking a computational chemist or for roles requiring both chemistry and computing skills.

Career information

Careers

- Application developer
- Software engineer and developer
- Game developer
- Cloud consultant
- Data scientist
- IT language development
- Geographical information system developer
- Programmer
- Software engineer
- Science educator
- Database design.

Industries

- Applications and software development
- Entertainment and gaming
- Business and commerce
- Information technology
- Education
- Finance
- Transport
- Cybersecurity
- Health informatics.

Software Systems Engineering

Be at the forefront of software systems evolution and engineer novel computer-based systems.

DEGREE

Bachelor of Engineering (Software Systems Engineering)

GUARANTEED ATAR

80

PREREQUISITES

Mathematics Methods ATAR and any of the following: Physics ATAR, Chemistry ATAR, Engineering Studies ATAR or equivalent

DESIRABLE

Mathematics Specialist ATAR or equivalent

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE*

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth, Dubai, Malaysia, Sri Lanka

CRICOS CODE

072467B

LEARN MORE

curtin.edu/bach-softsyseng

** Perth intake shown*

Overview

Software engineers create the computer-based systems that underpin the function of devices, machines and operations used in everyday life and across diverse industries, from mobile apps to electric vehicles, medical robotics to warehouse logistics.

In this major you will learn how to develop software-based systems by acquiring a thorough understanding of the principles of software systems design, measurement and analysis. You will use current and emerging technologies to develop and communicate effective engineering solutions to complex problems.

Your studies will include a strong foundation in the related disciplines of computer science and electrical and computer engineering, but will emphasise subjects relating to software requirements, design, implementation, industrial and embedded systems, and software testing.

Throughout your learning you will gain technical communication, interpersonal, teamwork and time management skills. You'll also explore the professional responsibilities of a software engineer, including operational security, social and ethical aspects.

In your final year you will apply your learning by undertaking a significant research project, where you will use systems thinking to provide an innovative solution to a software systems engineering challenge.

Professional recognition

This degree has been designed in accordance with Engineers Australia's professional accreditation requirements.

Career information

Careers

- Software engineer
- Software developer
- Systems architect

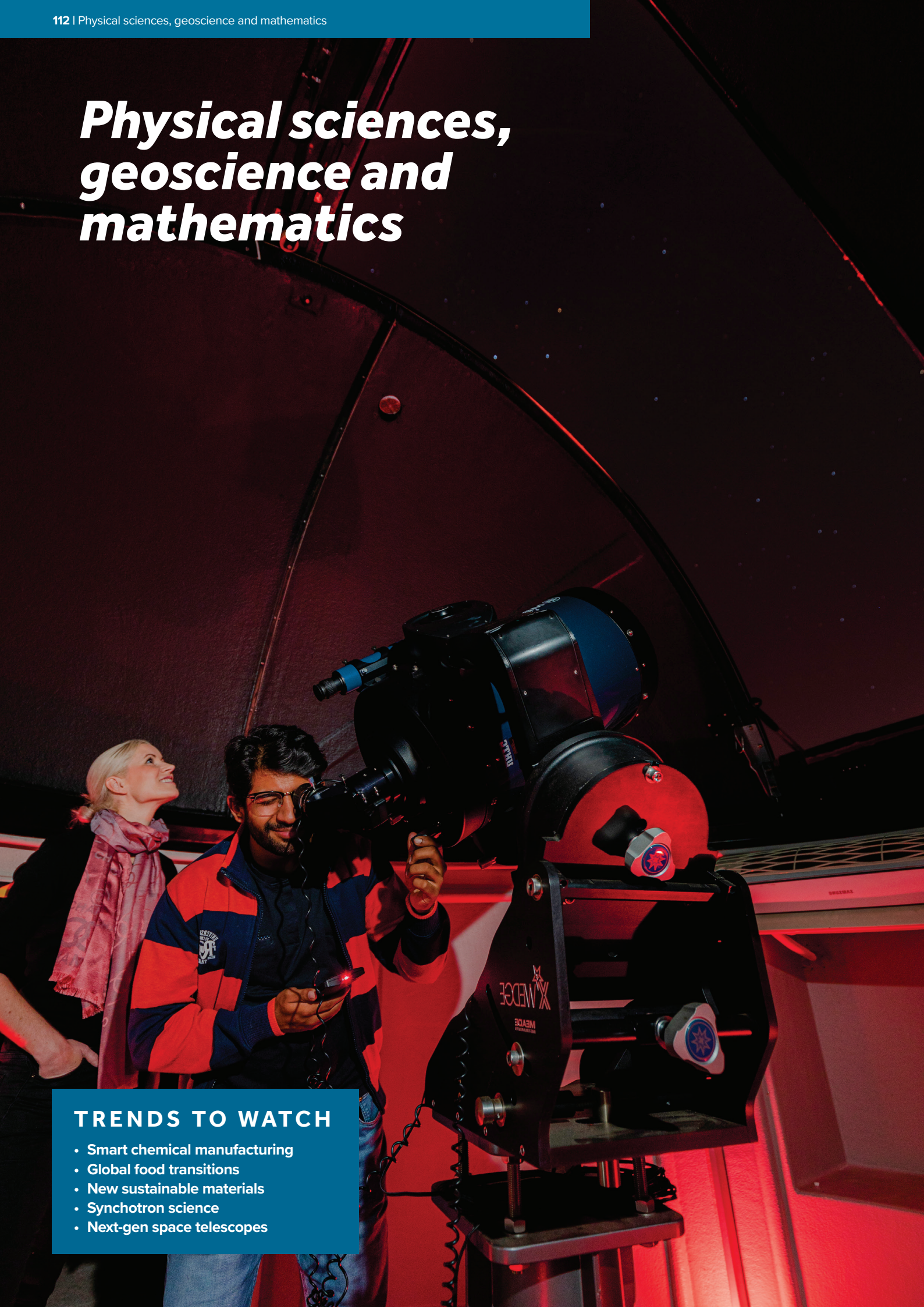
Industries

- Agriculture
- Banking and finance
- Gaming
- Health
- Manufacturing
- Research and development
- Retail
- Telecommunications
- Transport

Physical sciences, geoscience and mathematics

TRENDS TO WATCH

- Smart chemical manufacturing
- Global food transitions
- New sustainable materials
- Synchrotron science
- Next-gen space telescopes



Science and mathematics lie at the heart of technology and innovation. At Curtin, you can develop expertise in areas such as biochemistry, data science, industrial modelling or physics, and apply your learning to the real world.

You'll graduate ready for opportunities to work in environments where research and discovery abound.

Courses

Advanced Science

Applied Geology

Biochemistry

Chemistry

Earth Sciences

Industrial and Applied Mathematics

Mathematics

Multidisciplinary Science

Physics

See also

Actuarial Science (page 52)

Data Science (page 108)

Environmental Science (page 28)

Financial Mathematics (page 63)

Food Science (page 29)

Molecular Genetics (page 96)

Advanced Science

Become a highly skilled scientist, applying your specialist knowledge to globally significant challenges.

DEGREE

Bachelor of Advanced Science (Honours)

GUARANTEED ATAR

95

PREREQUISITES

Each major has specific prerequisite ATAR subjects

DESIRABLE

Each major has specific desirable subjects

STAT

Each major has specific STAT requirements

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

095949E

LEARN MORE

curtin.edu/bach-advsci

Overview

This course enables you to better tailor your study to suit your specific interests in science and gives you access to advanced-level units relevant to an honours degree.

You will learn core science units and choose a science major in which to specialise. From your second year you'll benefit from work-integrated learning opportunities that give you practical experience and skills before you graduate – an attribute that is highly valued by employers.

You'll also undertake internal and external research experiences, and in your final year you may conduct a self-directed honours project that adds to the scientific knowledge of your field.

This science degree is unique in Western Australia in that you will also study scientific professional practice, entrepreneurship and leadership. It is designed to ensure you graduate as a resourceful and creative professional who can respond innovatively to changing industry and employment landscapes.

Available majors

- Agricultural Science
- Chemistry
- Coastal and Marine Science
- Computing
- Data Science
- Earth Sciences
- Environmental Science
- Financial Mathematics
- Industrial and Applied Mathematics
- Molecular Genetics
- Physics.



Applied Geology

Learn about Earth's fascinating geological processes that affect our environment, climate and resources.

DEGREE

Bachelor of Applied Geology

GUARANTEED ATAR

70

PREREQUISITES

Mathematics Applications ATAR

DESIRABLE

None

STAT

Accepted

PORTFOLIO ENTRY

Accepted

INTAKE¹

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION²

Perth, Malaysia, Kalgoorlie

CRICOS CODE

108986M

LEARN MORE

curtin.edu/bach-appgeo

¹ Perth intake shown

² Location depends on selected stream.

Overview

Geology is the study of the Earth and its resources, and of the natural planetary processes that directly affect people – such as the formation of mineral and energy resources, geological hazards, climate change and environmental protection and management.

In this course you will gain a thorough grounding in theoretical geology with a practical emphasis on mineral, energy and groundwater resources and their environmental management, as well as the sustainable supply of resources for the decarbonising industry.

In your first year you'll gain a foundation in geology, chemistry, maths, scientific communication and computer skills. Your second year focuses on the theoretical, laboratory and field skills required to understand geological processes.

The first two years of this course are based at Curtin Perth. In your third year, you can study the Applied Geology stream at Curtin Perth or the Mining Geology stream at Curtin Kalgoorlie, and select units to tailor your final year of study. These units emphasise specific applied aspects of geoscience.

Applied Geology

This stream covers the breadth of applied geosciences, including mineral and petroleum exploration and extraction techniques, groundwater resources and environmental geosciences. It is offered at Curtin Perth and Curtin Malaysia.

Mining Geology

This stream combines studies of resource and field geology with mining systems, resource estimation and process mineralogy. The final year of this course is undertaken at Curtin Kalgoorlie.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Professional recognition

As a graduate, you may be eligible to apply for membership of the Australasian Institute of Mining and Metallurgy, the Australian Institute of Geoscientists and/or the Geological Society of Australia.

Career information

Careers

- Geologist
- Geological engineer.

Industries

- Environmental geology
- Groundwater extraction
- Mineral and petroleum exploration
- Mining
- Natural hazards and risk analysis
- Radioactive waste storage
- Research and development.

“I've always enjoyed working in mining and would love to understand how different ore bodies work.”

“The work experience I've completed has been very useful, giving me hands-on experience and helping me to better understand the different course work. After I graduate, I hope to become an underground mine geologist and then progress to a more senior role in the industry.”

Rikki-Jayne Edwards

Bachelor of Applied Geology

Biochemistry

From forensic science to clinical research, a biochemistry degree can lead to a range of fascinating career paths.

DEGREE

Bachelor of Science (Biochemistry)

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR and Chemistry ATAR

DESIRABLE

Mathematics Methods ATAR and Biology ATAR or Human Biology ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-bioch

Overview

Biochemists study the molecular structures and processes that form the foundation for living matter.

In this major, you will study the core principles of chemistry, molecular structure and chemical reactivity, and how they can be applied to biological molecules.

You will study second- and third-year units in biological, medicinal and natural product chemistry; and complementary units in cell biology, molecular biology and molecular genetics.

You'll investigate molecular systems that regulate cell growth, including signalling and defence, and related metabolic pathways.

You'll also study molecular recognition and its applications in biosensors, drug design and optimisation, and in monitoring the effects that exogenous compounds can have on living systems.

You can specialise in either Chemistry or Environmental Biology:

Chemistry

In this specialisation you'll study the advanced aspects of chemical science. You'll use complex equipment and procedures to understand the science that underpins biochemistry and make, analyse and monitor chemicals in our environment.

Environmental Biology

Environmental scientists are needed to understand ecological functions and apply this knowledge to solve issues related to land degradation, urban and regional development, impacts of mining, oil and gas extraction and processing, biodiversity loss, and pollution.

In this specialisation you'll develop your biological expertise and skills in experimental design, statistics, critical thinking and communication so you can confidently undertake environmental research and apply it to real-world challenges.

Professional recognition

As a graduate, you may be eligible for membership of the Royal Australian Chemical Institute (RACI).

Career information

Careers

- Biochemist
- Biotechnologist
- Forensic scientist
- Medicinal scientist.

Industries

- Agriculture
- Biotechnology
- Healthcare.



Chemistry

Experience science at a molecular level, where major advances are made in medicine, IT, nanotechnology and materials.

DEGREE

Bachelor of Science (Chemistry)*

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR and Chemistry ATAR

DESIRABLE

Mathematics Methods ATAR, Mathematics Specialist ATAR, Physics ATAR or Biology ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-chemi

* Chemistry can also be studied as part of the Bachelor of Advanced Science (see page 113).

Overview

Chemistry is sometimes called the 'central science' because it connects other sciences such as physics, biology and geology. It is science at a molecular level, where major advances are being made in areas such as medicine, IT, nanotechnology and new materials.

In this course you'll gain the knowledge to become a skilled chemist. You'll study theoretical and practical aspects of chemistry, including synthesis, analysis and spectroscopy. Your learning will be largely laboratory-based, in Curtin's Resources and Chemistry Precinct.

You'll also learn problem-solving, teamwork and critical analysis skills, which can open opportunities for other careers within science.

You'll specialise in one the following:

Analytical and Forensic Chemistry

In this specialisation you'll learn how to use sophisticated scientific instruments to solve complex analytical problems.

You'll also develop effective problem-solving and decision-making skills within the ethical and professional context of analytical and forensic science.

Medicinal and Biological Chemistry

This is a crossover field of chemistry where you'll study the essential processes of life at the molecular level. You'll use complex equipment and procedures to understand the biomolecular world, explore applications in biosensors and drug design, and monitor the effects that new substances (such as food additives and medicines) have on living organisms.

Chemistry of Sustainable Development

This specialisation highlights how chemistry is an integral science to developing solutions to sustainability. A broad range of topics will be covered, including water, energy, industry and the environment. You'll also develop effective problem-solving and decision-making skills.

Double degree

You can study this course as part of a double degree. See page 121 for double degree combinations.

Career information

Careers

- Analytical chemist
- Environmental chemist
- Forensic scientist
- Materials scientist
- Medicinal chemist
- Synthetic chemist.

Industries

- Environment
- Forensics
- Health
- Manufacturing
- Petrochemical engineering.

Earth Sciences

Gain the knowledge and skills for a career in industries involved in energy transitions, sustainable use of Earth resources, and climate and environmental challenges.

DEGREE

Bachelor of Science (Earth Sciences)*

MINIMUM ATAR

70

PREREQUISITES

Mathematics Applications ATAR

DESIRABLE

Earth and Environmental Science ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-earth

* Earth Sciences can also be studied as part of the Bachelor of Advanced Science (see page 113).

Overview

Earth scientists are essential to meeting society's future challenges around climate and environmental change, the sustainable extraction of critical resources such as water, and minerals for new and emerging technologies.

Across a range of industries, Earth scientists use sophisticated instruments to determine the properties of Earth and planetary materials, and to help understand the evolution of the Earth and the controls and direction of its climate and biosphere.

In this course you will gain advanced knowledge in Earth sciences and learn how to apply that knowledge to scientific, social and ethical issues. You'll also use digital technologies and learn to gather and interpret data that are relevant to Earth sciences applications and careers.

Career information

Careers

- Earth scientist
- Environmental geoscientist
- Geochemist
- Geologist
- Geotechnician
- Hydrogeologist.

Industries

- Resources
- Environmental agencies
- Research
- Geological surveys.

Industrial and Applied Mathematics

Gain advanced, industry-relevant mathematics skills applicable to diverse STEM careers and applications, from industrial modelling to finance.

DEGREE

Bachelor of Advanced Science (Industrial and Applied Mathematics) (Honours)

GUARANTEED ATAR

95

PREREQUISITES

Mathematics Specialist ATAR

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

095949E

LEARN MORE

curtin.edu/bach-adindmath

Overview

This course includes units in advanced calculus and linear algebra that provide foundation knowledge, and units in modelling and optimisation, network design and analysis, logistics, supply chain networks, transportation networks, computational mathematics, statistics and probability. Industry-based units and a work experience program will help you to experience real applications.

You'll be able to explore the field through for-credit immersive research experiences, industry placement and/or interdisciplinary team-based projects.

Your capstone experience will enable you to pursue mathematics projects that may be based anywhere from pure research through to translational (entrepreneurial) science.

Graduates are well equipped with the tools to address the key problems that need to be solved to improve the efficiency and productivity of business and industry.

Professional recognition

Graduates of this course may be eligible for membership to the Statistical Society of Australia (SSAI), Australian Society for Operations Research and Australian Mathematical Society (Aust MS).

Career information

Careers

- Data analyst
- Industrial engineer
- Information technologist
- Logistician
- Statistical analyst
- Supply chain manager.

Industries

- Engineering
- Government
- Logistics and supply chain networks
- Risk management.



Mathematics

Learn how to apply mathematical concepts – such as quantity, structure, space and change – to model and describe the behaviour of real-world complex systems and improve their operations.

DEGREE

Bachelor of Science (Mathematics)

MINIMUM ATAR

70

PREREQUISITES

Mathematics Methods ATAR or equivalent

DESIRABLE

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-math

Overview

In this course you will gain the knowledge and skills for careers in optimisation, as well as financial and industrial mathematics.

You'll learn how to apply mathematical and statistical principles and concepts in mathematics career areas – including operations research, statistics, numerical analysis and applied mathematical modelling – and to solve related problems in science, industry, commerce and government.

You'll develop skills in mathematics and statistical methods to analyse and resolve problems in science, engineering and finance; and learn to think creatively to generate innovative solutions.

In addition, you'll locate, extract and appraise evidence and scientific literature in relation to mathematical science, and use new technologies to gather data and communicate information.

Career information

Careers

- Data analyst
- Information technologist
- Logistician
- Statistical analyst
- Supply-chain management
- Financial analyst
- Fraud analyst
- Biostatistician
- Criminologist
- Communications specialist
- Cryptologist
- Market researcher
- Medical researcher
- Meteorologist
- Operations research analyst.

Industries

- Business and commerce
- Finance
- Information technology
- Government
- Defence
- Transport
- Security
- Research.

Multidisciplinary Science

Gain the knowledge and skills of multiple science disciplines that are increasingly important for addressing environmental and industry issues.

DEGREE

Bachelor of Multidisciplinary Science

MINIMUM ATAR

70

PREREQUISITES

None

DESIRABLE

Mathematics Methods ATAR and one of the following Science ATAR courses: Animal Production Systems ATAR, Applied Information Technology ATAR, Aviation ATAR, Biology ATAR, Chemistry ATAR, Computer Science ATAR, Earth and Environmental Science ATAR, Engineering Studies ATAR, Human Biology ATAR, Integrated Science ATAR, Marine and Maritime Studies ATAR, Physics ATAR, Plant Production Systems ATAR or Psychology ATAR

STAT

Accepted

PORTFOLIO ENTRY

Accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

108988J

LEARN MORE

curtin.edu/bach-mtdsc

Overview

The application of science to real-world problems continues to evolve and become increasingly complex and truly multidisciplinary in nature. Nowadays, in many areas of scientific endeavour, no one science discipline is sufficient to deliver advances and innovation.

This is reflected in multidisciplinary fields such as astronomy, biochemistry, bioinformatics, environmental science, forensic science and nanotechnology.

In this course you will learn to apply scientific principles and concepts to real-world problems that are multidisciplinary in nature. You'll also learn the communication, creative, entrepreneurial and cultural-awareness skills that are important in multidisciplinary, collaborative careers throughout government and industry.

You'll have a choice of studying one of four majors: Computational Sciences, Earth and Environmental Sciences, Engineering Science or Physical Sciences.

Computational Sciences

In this major you will study various aspects of modern computing and gain the knowledge and practical skills that are sought by employers. The course covers fundamental programming and introduces C and Java as the tools for learning core concepts such as object orientation and algorithms. You'll also learn Linux skills and study the fundamental aspects of artificial intelligence, computer science, and cybersecurity.

Earth and Environmental Sciences

In this major you will study Earth dynamics and its relationships with environmental science. Earth scientists are essential to resources and environmental industries and use sophisticated techniques for the analysis of earth and planetary materials.

Environmental scientists apply their expertise in physical and biological sciences to generate innovative and sustainable solutions to environmental issues.

Upon graduating, you'll have the skillsets for careers involved in monitoring the impacts of industrial, urban, mining and agricultural development; measuring and analysing pollutants; and developing conservation and management plans.

Engineering Science

In this major you'll gain the mathematical, practical and problem-solving skills to tackle various engineering challenges from a science perspective.

This course has a cross-disciplinary focus so that you learn the fundamental principles of the various engineering fields, and also gain the theoretical grounding and practical knowledge to devise solutions to complex societal challenges. This major also provides a pathway to further discipline-specific engineering studies.

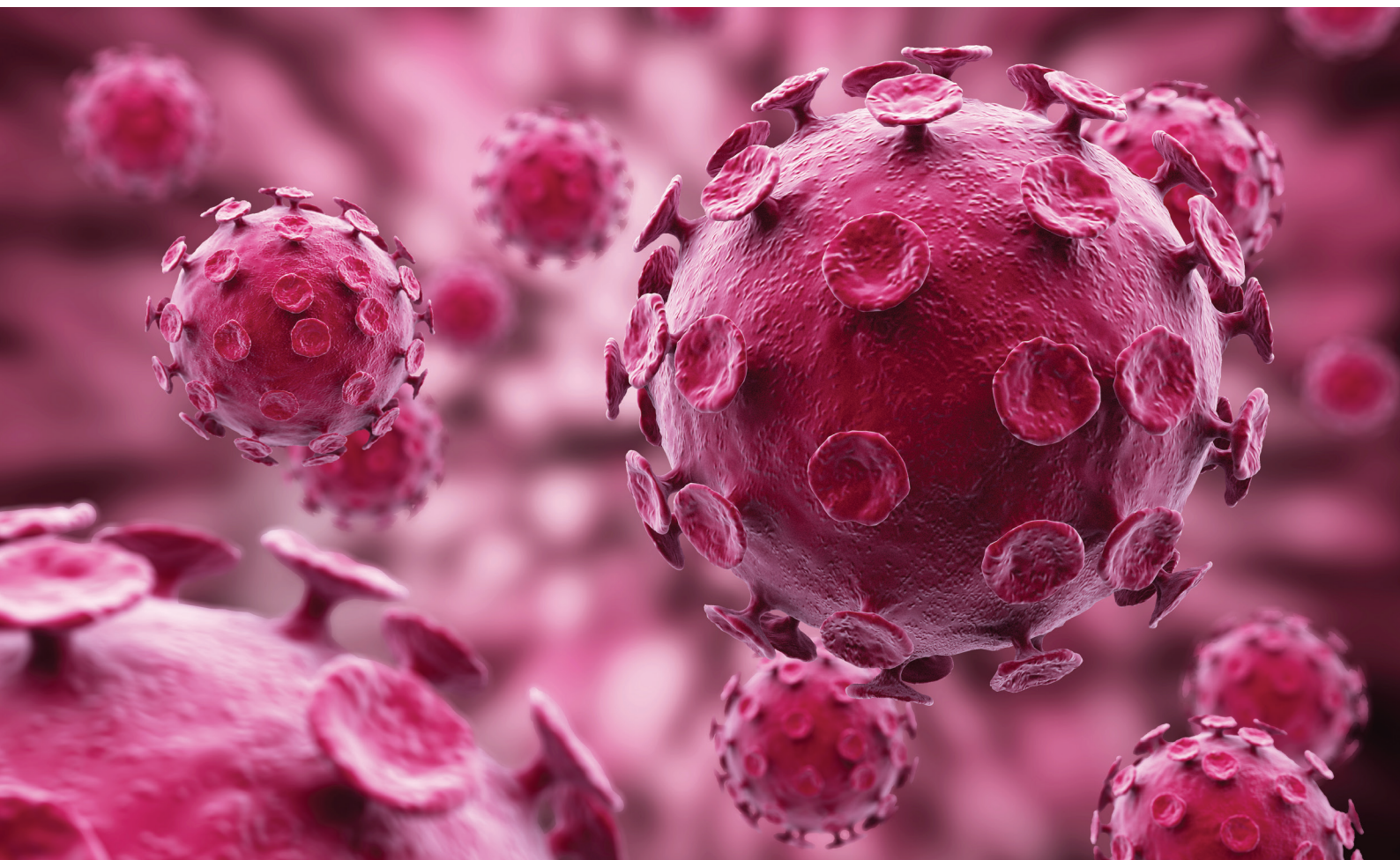
Physical Sciences

In this major you'll study fundamental aspects of physics, astronomy, chemistry, mathematics and geology, and how these are drawn together to tackle emerging scientific challenges.

Physics and astronomy utilise the four known forces to explain relationships among the smallest through to the largest structures; chemists explore the properties and behaviour of matter; whereas geologists study the solid Earth, the composition of rocks and how these change over time. These scientific fields are all underpinned by mathematics as a framework for explaining observations and predicting outcomes.

Multidisciplinary Science as a pathway

If you haven't studied science before or you don't meet the prerequisites for our Science course majors, this course is also a pathway for admission to our Bachelor of Science majors and STEM courses – such as Computing, Engineering, Actuarial Science, Health Sciences and Medical Radiation Science. After you graduate, you may instead choose to study for a career in science education.



Physics

Reach for the stars, studying matter and energy in all their forms.

DEGREE

Bachelor of Science (Physics)*

MINIMUM ATAR

70

PREREQUISITES

Mathematics Methods ATAR and Physics ATAR

DESIRABLE

Mathematics Specialist ATAR and Chemistry ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO ENTRY

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

061600D

LEARN MORE

curtin.edu/bach-physi

* Physics can also be studied as part of the Bachelor of Advanced Science (see page 113).

Overview

From the kinetic energy of a speeding car to nuclear fusion energy, from nearby stars to distant galaxies, physicists examine matter and energy in all their forms.

In this course you will study real-world problems through observation, measurement and theoretical analysis. You'll learn the core concepts of physics and gain experience using complex technical equipment, such as those found at supercomputing facilities.

You can specialise in one of the following:

Applied Physics

In this specialisation you will study matter and energy in the Earth's natural and managed environments: the atmosphere, oceans, rivers, land, soils and living organisms.

You'll study contemporary topics such as the development of energy-saving 'green' materials and the disposal of radioactive wastes. You'll also learn how to deploy instruments during field excursions, and undertake field and satellite data analysis.

You'll have the opportunity to undertake applied acoustics with Curtin's Centre for Marine Science and Technology, and applied underwater optics with Curtin's Remote Sensing and Satellite Research Group.

Astrophysics

This specialisation is suitable if you are interested in radio astronomy. You'll grapple with scientific questions ranging from the origins of the Universe to the nature of dark matter.

Curtin's major involvement in the International Centre for Radio Astronomy Research and the Square Kilometre Array means you will have the chance to analyse data from cutting-edge radio telescopes.

Materials Science

This specialisation looks for connections between the underlying structure of a material, its properties and applications, and how processing changes the material.

You will study materials including metals, semiconductors, glasses, ceramics and polymers. You'll also learn about analytical instruments and radiation that materials scientists use to investigate the microstructure of samples.

Mathematical Physics

Mathematical physics is the study of nature. Through mathematical models, we can predict the progress of climatic changes, the flow of oil reservoirs and development of new materials.

This specialisation will prepare you to work as a physicist or mathematician.

Professional recognition

Gain professional membership of the Australian Institute of Physics.

Career information

Careers

- Astrophysicist
- Computational physicist
- Environmental physicist
- Materials analyst
- Meteorologist
- Satellite remote-sensing scientist
- Financial analysts
- Medical physicists.

Industries

- Astronomy
- Defence
- Environmental consultation
- Manufacturing.

Double degree combinations

Here are the different combinations available in a double degree. For ATAR requirements and prerequisites, find the corresponding single degrees in the pages that follow. The same criteria apply to the double degree.

| | Bachelor of Commerce | Bachelor of Engineering (Honours) | Bachelor of Information Technology | Bachelor of Laws | Bachelor of Science |
|---|-----------------------------|--|---|-------------------------|----------------------------|
| Bachelor of Arts/Creative Arts | | | | | |
| Accounting | ● | | | | |
| Economics | ● | | | | |
| Finance | ● | | | | |
| Human Resource Management | ● | | | | |
| International Business | ● | | | | |
| Management | ● | | | | |
| Marketing | ● | | | | |
| Public Relations | ● | | | | |
| Taxation | ● | | | | |
| Tourism and Hospitality | ● | | | | |
| Bachelor of Engineering (Honours) | | | | | |
| Chemical Engineering | | ● | | | |
| Civil and Construction Engineering | | ● | | | |
| Electrical and Electronic Engineering | | ● | | | |
| Mechanical Engineering | | ● | | | |
| Mechatronic Engineering | | ● | | | |
| Metallurgical Engineering | | ● | | | |
| Mining Engineering | | ● | | | |
| Bachelor of Information Technology | | | | | |
| Bachelor of Laws | | | | | |
| Bachelor of Science | | | | | |
| Applied Geology | | | | | ● |
| Chemistry | | | | | ● |
| Coastal and Marine Science | | | | | ● |
| Computer Science | | | | | ● |
| Data Science | | | | | ● |
| Environmental Biology | | | | | ● |
| Extractive Metallurgy | | | | | ● |
| Health and Safety | | | | | ● |
| Health Promotion | | | | | ● |
| Mathematics | | | | | ● |
| Mining | | | | | ● |
| Nutrition | | | | | ● |
| Physics | | | | | ● |
| Psychology | | | | | ● |
| Bachelor of Commerce | | | | | |
| Accounting | | ● | | ● | |
| Economics | | ● | | ● | |
| Finance | | ● | | ● | |
| Human Resource Management | | ● | | ● | |
| International Business | | ● | | ● | |
| Management | | ● | | ● | |
| Marketing | | ● | | ● | |
| Taxation | | ● | | ● | |
| Tourism and Hospitality | | ● | | ● | |
| Bachelor of Engineering (Honours) | | | | | |
| Chemical Engineering | ● | | | | |
| Civil and Construction Engineering | ● | | | | |
| Electrical and Electronic Engineering | ● | | | | |
| Mechanical Engineering | ● | | | | |
| Mechatronic Engineering | ● | | | | |
| Metallurgical Engineering | ● | | | | |
| Mining Engineering | ● | | | | |
| Bachelor of Laws | | | | | |
| Bachelor of Science | | | | | |
| Applied Geology | | | | | ● |
| Chemistry | | | | | ● |
| Coastal and Marine Science | | | | | ● |
| Computer Science | | | | | ● |
| Data Science | | | | | ● |
| Environmental Biology | | | | | ● |
| Extractive Metallurgy | | | | | ● |
| Health and Safety | | | | | ● |
| Health Promotion | | | | | ● |
| Mathematics | | | | | ● |
| Mining | | | | | ● |
| Nutrition | | | | | ● |
| Physics | | | | | ● |
| Psychology | | | | | ● |
| Bachelor of Technology | | | | | |
| Computer Systems and Networking | | | | | ● |

How to apply

1. Find a course

Find your course in the guide or at curtin.edu.au/study

2. Check the admission criteria

ATAR

You need to achieve a minimum or guaranteed ATAR for your chosen course.

ENGLISH

You need a scaled score of at least 50 in English ATAR, Literature ATAR or English as an Additional Language/Dialect ATAR.

PREREQUISITES

You need a scaled score of at least 50 in prerequisite subjects, if applicable.

PORTFOLIO ENTRY

You need at least one ATAR subject, or a grade A in at least one General subject.

You must also meet Curtin's English proficiency requirement through one of the following:

- ATAR English/Literature/EASLD, scaled score of 50 or Grade A, B or C or
- STAT Written English, score 140 or
- English General, grade A or
- a qualification listed at curtin.edu/englishrequirements

You'll also need to gather a portfolio of documents that showcase your academic achievements, qualifications, work experience, extra-curricular activities and suitability for tertiary study.

OTHER CRITERIA

Some courses have additional requirements, like the submission of an art portfolio.

3. Apply online

To apply, visit curtin.edu/apply

Find your pathway

There's more than one way to get into a Curtin course.

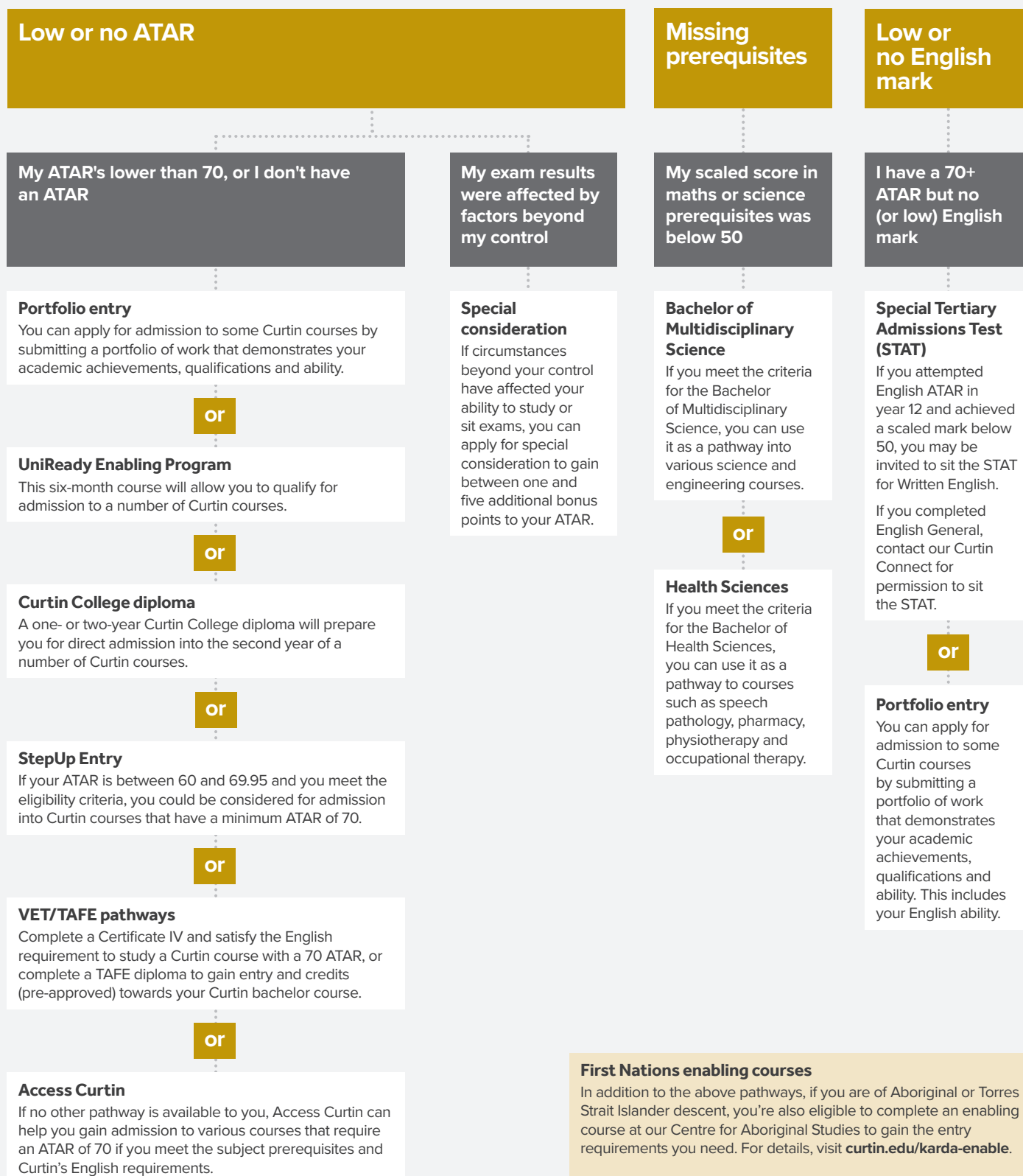


If you don't think you'll meet one or more criteria, there are many other pathways to Curtin.

This diagram shows some common pathways that domestic students can take, but there are more.

Visit curtin.edu/pathways for all the ways you can gain entry to Curtin.

Note: If you are an international student, make sure the 'international' button in the top right-hand corner is on to get content relevant for you.



Manage your finances

Before you start your course, consider the financial implications, find out how much it will cost and look at ways to manage your budget.

Tuition fees

You will need to pay tuition fees for each unit you undertake at Curtin. The amount you pay will depend on the course you are studying, the units you enrol in and whether you are a domestic or international student.

Curtin offers Commonwealth-supported undergraduate places to students who are Australian citizens, New Zealand citizens, Australian permanent residents, and Australian permanent humanitarian visa holders.

A Commonwealth-supported place is a subsidised higher education enrolment. The Australian Government subsidises these student places by paying part of your tuition fees directly to Curtin. The subsidy amount is not a loan and you do not have to pay back the subsidy amount. You only pay the remainder of the fee, known as the student contribution amount for each unit in which you are enrolled.

Our fees and charges web page shows the required student contribution for every unit.

To apply for a Commonwealth-supported place, you must submit an electronic Commonwealth Assistance Form (eCAF) with a valid tax file number to Curtin before the due date.

You will also need to provide Curtin with your Unique Student Identifier (USI). The USI is a new requirement for all new students. Applying for a USI is fast and free, and you keep the same USI for life. Apply at usi.gov.au.

As a Commonwealth-supported student, you have the option of paying your student contribution fee by the study period due date or deferring your payment via the HELP loan scheme.

Visit curtin.edu/course-fees.

HECS-HELP

HECS-HELP is a government loan scheme, which allows you to defer payment of your student contribution amount until you start earning an annual salary above the compulsory repayment threshold.

Once your salary exceeds the threshold, you will begin repaying your loan as a percentage of your wage to the Australian Tax Office.

HECS-HELP is available to all eligible students enrolled in a Commonwealth-supported place who do not have a low completion rate against their course. It takes effect involuntarily if you have provided Curtin with your tax file number and unique student identifier (USI), and if you don't pay your student contribution up-front by the study period due date.

Visit studyassist.gov.au/help-loans.

Student Services and Amenities Fee

The Student Services and Amenities Fee (SSAF) is a fee that universities and other approved higher education providers may charge for student services and amenities of a non-academic nature, such as sporting and recreational activities, employment and career advice, child care, financial advice and food services. If you are eligible, you may choose to defer all or part of your fee for the relevant year through a HELP loan scheme, SA-HELP.

Visit curtin.edu/ssaf.

SA-HELP

Similar to HECS-HELP, SA-HELP is a loan scheme, which helps you pay for all or part of your Student Services Amenities Fee, provided you are an Australian citizen, permanent humanitarian visa holder, or eligible New Zealand special category visa holder.

If you use SA-HELP, the amount will be added to your accumulated HELP debt. You may opt to access the SA-HELP loan even if you don't wish to access any of the other available HELP loan schemes.

Visit studyassist.gov.au/help-loans/sa-help.

Other expenses

Tuition fees do not cover the cost of some items required for studying a particular unit or course. Examples of these items include but are not limited to:

- art supplies
- field trips
- first aid courses
- lab coats
- textbooks
- Working With Children Check.

You may also incur day-to-day expenses, which include but are not limited to parking, transport, food and recreation costs.

Centrelink

Centrelink may provide financial assistance to students who are Australian residents and studying full time, however each applicant is assessed on a case-by-case basis and must meet other specific criteria.

Visit servicesaustralia.gov.au/centrelink.

Curtin Student Guild

The Guild provides comprehensive education, welfare and social services to its members. If you become a full Guild member, you can take advantage of a number of discounts both on and off campus. In conjunction with the Curtin Bookshop, the Guild offers a number of bookshop grants to students in need of financial assistance. The Guild also offers tax and budgeting advice.

Elite athletes

Elite athletes may be eligible for funding support via:

- Elite Athlete Grant – awarded annually to student athletes in the Elite Athlete Program who display sound academic results while competing in their respective sports.
- Subsidies to assist student athletes in representing Curtin at the Australian University 'Nationals', World University Games/Championships and other events.
- Free Curtin Stadium gym memberships.

Visit: curtin.edu/elite-athletes.

Scholarships

Scholarships offer financial, academic and career support, giving you more opportunities to gain new skills, expand your horizons and add to your portfolio of achievements.

Curtin provides scholarships that reward academic achievement and provide support if your socio-economic, cultural, geographic or personal circumstances may affect your capacity to succeed at university.

Scholarships are not loans – the money is given to you provided you fulfil key requirements such as academic performance, work experience or volunteer commitments.

Eligibility criteria

Scholarships are open to students who are:

- from low-income backgrounds
- from Aboriginal and Torres Strait Islander backgrounds
- high-achievers
- from regional areas
- studying specific courses.

Each scholarship has different eligibility criteria, application procedures and closing dates, so check these early.

Further information

Visit our scholarships website for further information about each scholarship.

The scholarships website contains:

- up-to-date information and eligibility criteria for available scholarships
- tips for writing a good scholarship application
- a sign-up email alert service that lets you know when a scholarship matching your selection criteria is open for applications. You will also receive a reminder email one week before applications close.

Visit scholarships.curtin.edu.au.



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Getting to Curtin Perth

Curtin Perth is located just six kilometres from the city centre. There are several easy, safe, affordable and environmentally friendly ways to get to and around campus.

Parking

Our smartphone-based pay-as-you-go parking system means you only pay for the time you park on campus. Download CelloPark from the App Store or Google Play and you'll be ready to park.

Transperth buses

More than 500 buses stop at Curtin each weekday during semester. Curtin has two main bus terminals – Curtin Bus Station, which is located on the east side of campus, and the Curtin Central Bus station, located on the campus' north-west side.

Two high-frequency bus routes – 100 and 101 – connect Curtin with the Canning Bridge train station. Routes 998 and 999 connect Curtin with Oats Street train station.

The CircleRoute buses, which run between Perth's universities, train stations and shopping centres, leave every 15 minutes between 6.30am and 8pm.

Transperth travel concessions are available on request to all full-time students.

Curtin shuttle buses

We provide a free hail-and-ride bus service for students living in Waterford, Bentley, Victoria Park and South Perth. Known as Curtin Access Bus Service (CABS), it runs during semester on weekdays.

There's even a CABS smartphone app that provides live GPS tracking, route mapping and access to timetables.

Trains

Mandurah Line

Many Perth – Mandurah trains stop at the Canning Bridge train station, where you can catch a connecting Transperth bus to Curtin. Buses run every seven to eight minutes during peak times.

Armadale Line

Many Perth – Armadale trains stop at Oats Street train station, where you can catch a connecting Transperth bus to Curtin.

Cycling

In addition to the many bicycle racks, secure bicycle pods are an increasingly common feature on campus. Showers are available at some bicycle enclosures. Entry to the facilities is by swipe card access, available from Curtin Security.

1 Exchange

Exchange is our new innovation precinct, home to our two new student accommodation buildings and the School of Design and the Built Environment, the Nesuto Curtin hotel, residential apartments, Tucker Fresh IGA grocer, and other delicious food options.

2 Cafés and IGA grocer

There are 12 cafes including the Main Café and Common Ground café, and a full-range grocer with daily 'grab-and-go' options. We also have food trucks that rotate weekly throughout semester.

3 Curtin Stadium

The stadium includes a fitness centre and facilities for tennis, basketball, volleyball, table tennis, badminton, netball, futsal, floorball and group fitness classes.

4 Guild Precinct

The Curtin Student Guild provides educational, commercial and social services to its members. It also operates many services on campus including cafés and cafeterias, The Tav, second-hand bookshop, Curtin Concept store and the Copy & Design Centre.

5 Curtin Connect

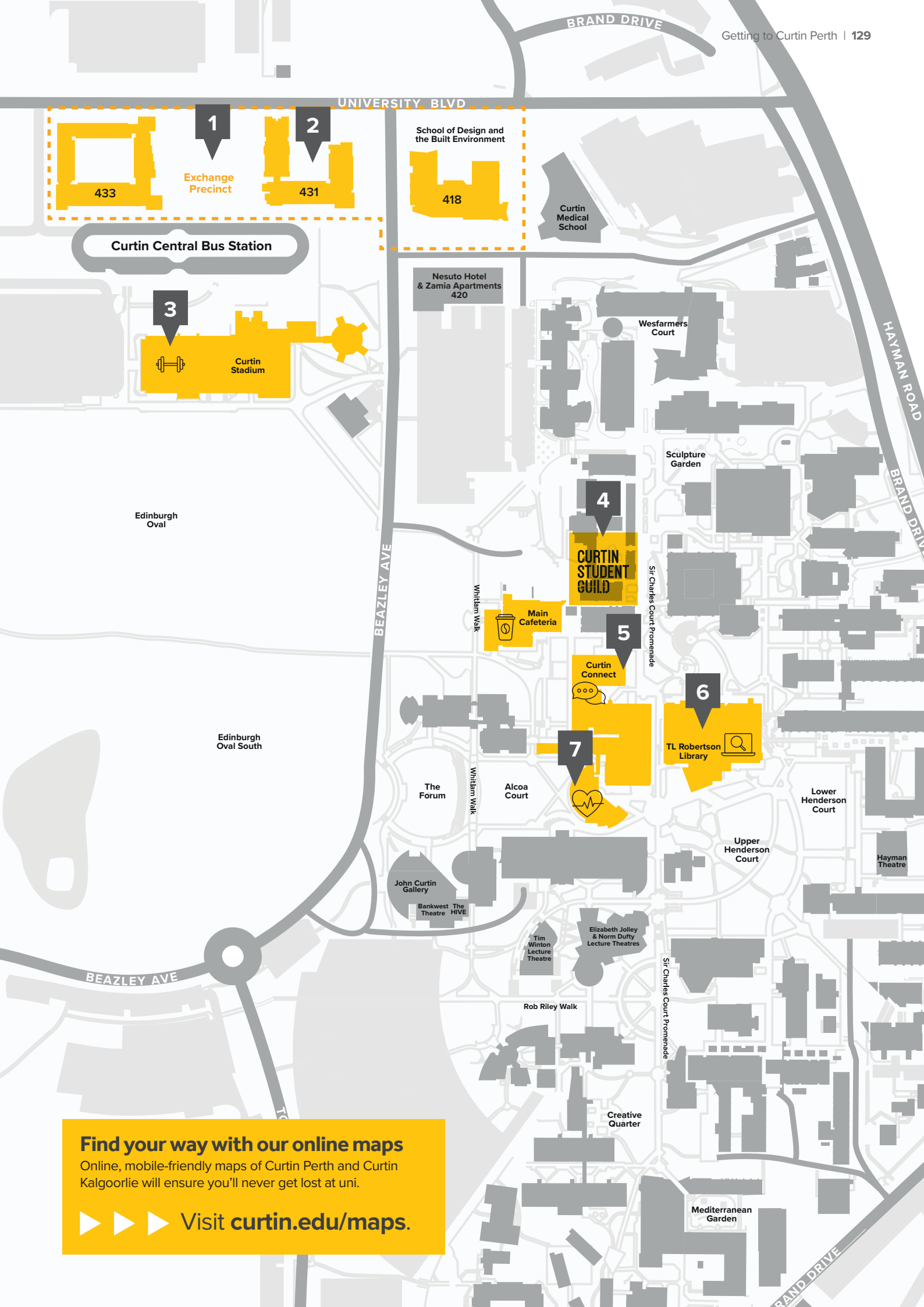
This is the first point of contact for all queries from current and future Curtin students and parents. Here you can speak to experts on courses, admissions, housing, enrolment and careers.

6 Robertson Library

The refurbished and revitalised TL Robertson Library is spread over five levels and offers a café, quiet study areas, collaborative group spaces, a reading room, a Makerspace, flexible teaching options and a student kitchen. During semester it will be open 24/7.

7 Health Services Centre and Counselling Service

The centre includes a doctor's surgery where you can make appointments with either a doctor or nurse. Curtin students also have access to professional psychologists and social workers.

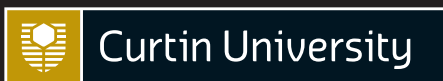


Find your way with our online maps

Online, mobile-friendly maps of Curtin Perth and Curtin Kalgoorlie will ensure you'll never get lost at uni.



Visit curtin.edu/maps.



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