



Curtin University

# *Undergraduate*

## COURSE GUIDE



Make tomorrow better.





# CHANGE IS HERE. JOIN US.

**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, 2022	SEMESTER 1, 2023	SEMESTER 2, 2023
Orientation Week	18 – 22 July	20 – 24 February	17 – 21 July
Semester starts	25 July	27 February	24 July
Semester ends	11 November	16 June	10 November

Applications close two weeks before orientation\*. Visit [curtin.edu.au/calendar](https://curtin.edu.au/calendar) for all study periods for 2023. Visit [curtin.edu.au/deadlines](https://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.



# Change is here!

**01** The Binar-1 CubeSat, or miniature satellite, was built by Curtin students and staff at Curtin University’s Space Science and Technology Centre. It was on board a SpaceX rocket which launched from the Kennedy Space Centre in Cape Canaveral, Florida on the 29th of August 2021.

Five weeks after launching, it was deployed into low Earth orbit from the international Space Station, on a mission to collect data and take photographs from 400km above Earth. The members of Binar watched the deployment live at the Curtin HIVE, where Project Manager Ben Hartig gave the “go” for deployment.

**02** We are using sonar and acoustic technology to survey seafloors, monitor ocean noise and determine the effects of underwater noise on marine animals.

**03** Our scientists are advancing new treatments for major chronic diseases including Alzheimer’s disease, inflammatory disorders, heart disease, traumatic brain injury and cancer.

**04** We’re finding ways to preserve, nourish and communicate Aboriginal and Torres Strait Islander cultural practices and languages. Using virtual reality technology, we’re turning mission sites into healing spaces for survivors and families of the Stolen Generations.

**05** We’re working with the building industry to design innovative, modular houses that can be easily dissembled and transported.

**06** Our research at the Bankwest Curtin Economics Centre is seeking to reduce the gender pay gap and promote more women to senior management positions.





# 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](https://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/ignitionprogram](https://curtin.edu/ignitionprogram).

## 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](https://curtin.edu/volunteering).



**WESTERN AUSTRALIA'S #1  
FOR UNDERGRADUATE  
FULL-TIME EMPLOYMENT  
AND STARTING SALARY**

Curtin University has outranked all other public universities in Western Australia for undergraduate outcomes of full-time employment and starting salary, as well as staff qualifications in the 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 (ARWU) 2021.



# Learn in Western Australia

From regional Western Australia to the heart of the city, 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

Our largest campus is just six kilometres from Perth city. It's a place of inspiration, technology-rich learning spaces, high impact research and exciting activities. All courses are available at Curtin Perth.

## PERTH CITY

Curtin Law School in central Perth strengthens our 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 nearby health services to apply their studies.

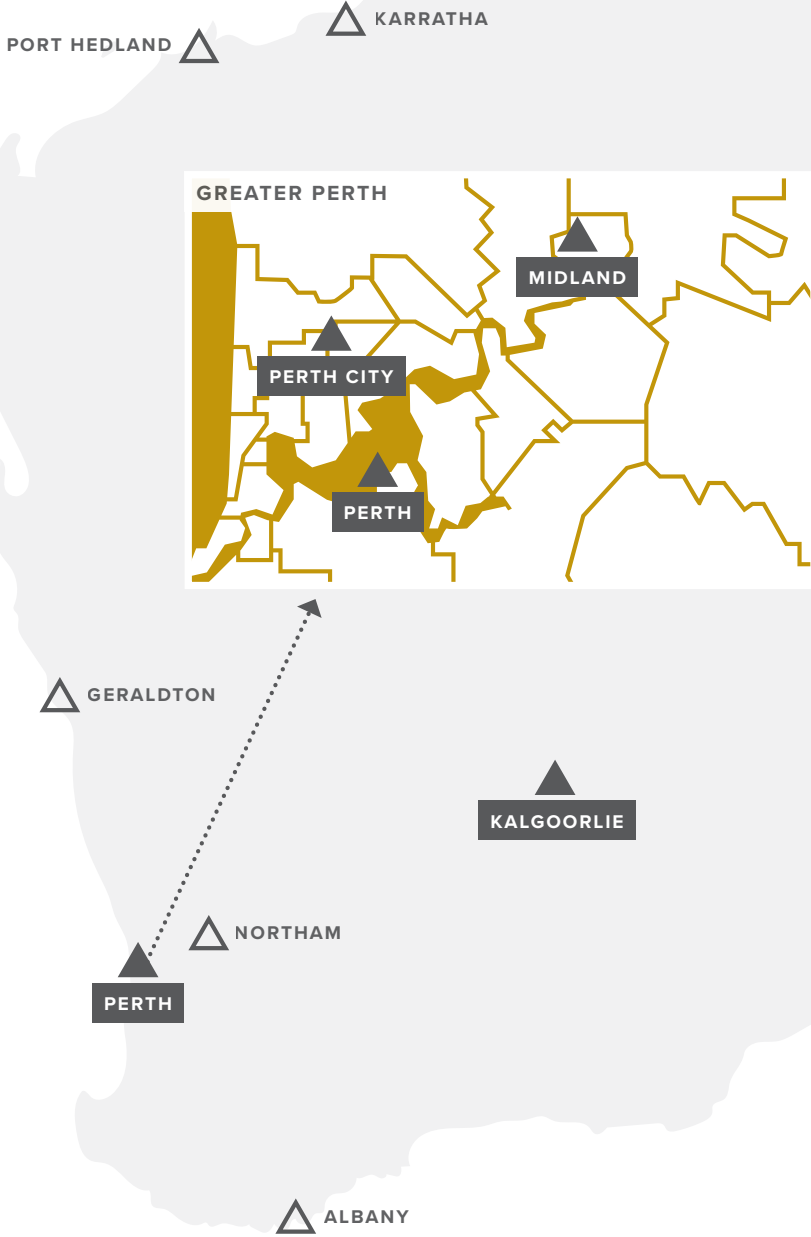
## KALGOORLIE

Our Kalgoorlie campus 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. Curtin Kalgoorlie also houses our Rural Health Campus, which offers regional training opportunities for medical and health science students.

## 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.

Visit [study.curtin.edu.au/curtin-life/regional-study](https://study.curtin.edu.au/curtin-life/regional-study).



**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



As a Curtin student, you'll 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 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](http://curtin.edu.sg).

## 02 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 arts, commerce, engineering, or IT and computing.

Visit [curtindubai.ac.ae](http://curtindubai.ac.ae).

## 03 MAURITIUS

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

Visit [curtinmauritius.ac.mu](http://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](http://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.



07



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- 01 3D virtual bodies**  
Cut, pinch, rotate and zoom on a virtual human body with our Anatomage tables.
- 02 Astrodome**  
Featuring a live feed from a 12-inch Meade Refractor telescope, you'll have a direct link to national and global astronomy projects.
- 03 Curtin Engineering Pavilion**  
The innovative design and technologies in the spacious Curtin Engineering Pavilion Complex double up as hands-on learning tools for engineering students.
- 04 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..
- 05 Green Electric Energy Park (GEEP)**  
The GEEP laboratory enables you to conduct advanced experiments and research projects on various types of renewable energy sources.
- 06 Jeanette Hacket 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.
- 07 Management HQ**  
A highly interactive space ideal for brainstorming ideas, visualising and assimilating data, solving problems, formulating strategies and collaborating on projects.
- 08 Media production studio**  
Make your mark using interactive media facilities with HD and 4K-compatible technology, and industry-standard digital systems for recording and post-production editing and sound mixing.
- 09 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.
- 10 The Agency**  
Experience first-hand how major brands monitor their digital presence at our social media command centre.
- 11 Trading room**  
Walk straight into the centre of global finance, with Thomson Reuters terminals, international news services and live stock prices.
- 12 Curtin clinics**  
These clinics provide opportunities for health students to learn in professional environments.



# Live and learn on campus



There is a sense of community both in and out of the classroom, with collaborative learning spaces and outdoor leisure areas 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.

**Events**

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

**Technological convenience**

Wi-fi can be accessed across the campus and there's a number of places on campus where you can 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 900sqm 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](http://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 great cafés and a variety of food trucks!

**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**

At Curtin Perth, we provide a 24/7 security patrol, after-hour security escort, campus courtesy bus, emergency telephone stations, the SafeZone safety app, secure-card building access and well-lit pathways.





# 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 has six on-campus housing options that are surrounded by recreational spaces. Our newest accommodation buildings, Twin Dolphin Hall and St Catherine’s College, form part of our industry-connected Exchange precinct. We also have student accommodation options at Curtin Kalgoorlie.

All our Perth accommodation options are a five-to-ten-minute walk from your classes and close to Curtin Stadium, Curtin Central Bus Interchange, and cafés and restaurants – offering all the convenience of an urban lifestyle and plenty of opportunities to make new friends.

And when you’re ready for a study break, you’re a short drive from the Perth CBD, Optus Stadium, the South Perth foreshore, local café strips and major shopping precincts.

### 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 that is tailored to suit the different stages of your university journey, such as free tutoring and formal academic dinners. It also incorporates the wider college community for collaborating, networking and events and 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

UniLodge offers a range of independent living options including self-contained studios with ensuites and furnished private rooms in shared apartments. Living on campus with UniLodge you can enjoy weekly events and activities, 24/7 security, plus you don’t have to pay a bond or security deposit.

### Twin Dolphin Hall

Twin Dolphin Hall offers self-contained studio options as well as private rooms in two-, four- or six-bedroom apartments, plus accessible units. The new ten-storey building has excellent facilities including commercial laundries, games room, music room, art room and common rooms on each level for you to relax or study with friends. On the top level you will also find a theatre room for movie marathons or catching up on your favourite shows.

## Benefits of living on campus

- You’ll live in a supportive environment where you can meet new people, make friends and feel part of the community.
- All our accommodation is furnished and you’ll benefit from free Curtin wi-fi, an off-peak gym membership at Curtin Stadium, plus all your utilities are included in your weekly rent.
- You can make the most of the university services, including the library, peer study groups, sport facilities and medical services.
- There’s minimal travel time to classes.
- You can have greater involvement in the campus community in clubs, volunteering and events.
- You’ll gain independent living skills in a safe environment.

### Erica Underwood House

This homely environment sits across the road from Curtin, close to shops and restaurants and accommodates 324 students. There are 54 furnished, six-bedroom apartments, each with two bathrooms, bedrooms with desks and chairs, a lounge and dining area and an open-plan kitchen.

### Vickery House

Sitting amongst beautiful gardens on the southeast boundary of Curtin Perth, Vickery House offers 42 furnished six-and eight-bedroom units. The common space also features a music room with a drum kit, keyboard and microphone!

### Guild House

These furnished apartments are located across the road from Curtin Stadium, on the corner of Kent Street and Jackson Road – perfect for anyone wants to keep fit and enjoy the outdoors. There are 31 private rooms available across four- and six-bedroom apartments.

### Kurrajong Village

This housing is located on the west side of Curtin Perth, opposite Waterford Plaza shopping centre. There are four properties available within the tranquil gardens – Don Watts House, George James House, Japan House and Rotary International House. Options range from private rooms in eight-bedroom apartments to studio apartments.



## 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.



# 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](https://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.

# Common uni words

## 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 university qualification, usually a bachelor degree.

## Course structure

### 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).

### Minor or specialisation

A minor or specialisation is a set of four units in the same discipline. It may complement your bachelor degree or major, and can be from the same discipline as your bachelor degree or a different discipline. For example, you may study a Bachelor of Arts (Journalism) and complement this with a commerce specialisation such as Public Relations.

### Professional placement/internship

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

### 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.

### Desirable

A non-essential but recommended subject completed before starting a course.

### 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.

### 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](https://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.





# Courses

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

This degree type is three or four 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. The condensed program structure means it may take only 12 to 18 months longer than a single degree.

When you study a double degree, you specialise in a major within each degree. You will study more units from the degree listed first in the course title. When you complete your course, you're awarded with two degrees.

### 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.



“ I chose to study a mechanical engineering and finance double degree because I wanted a degree that would open doorways to many career paths. During my study, I completed two years of work experience at a sustainable engineering consultancy, which helped me further my technical knowledge and gave me insight into a business and office environment. ”

Lucy Nyholt

Bachelor of Engineering (Mechanical Engineering) (Hons) and Bachelor of Commerce (Finance)

# Improve your career with a double degree

	Bachelor of Commerce	Bachelor of Engineering (Honours)	Bachelor of Information Technology	Bachelor of Laws	Bachelor of Science
<b>Bachelor of Arts</b>					
Anthropology and Sociology	●				●
Chinese	●				●
Creative Writing	●				
Digital and Social Media	●				●
English and Cultural Studies	●				
Geography	●				●
History	●				
International Relations	●				●
Japanese	●				●
Journalism	●				
Professional Writing and Publishing	●				
Screen Arts	●				
Theatre Arts	●				
<b>Bachelor of Commerce</b>					
Accounting		●		●	
Economics		●		●	
Finance		●		●	
Human Resource Management				●	
International Business					
Management		●			
Marketing		●			
Public Relations				●	
Taxation				●	
Tourism and Hospitality					
<b>Bachelor of Engineering (Honours)</b>					
Chemical Engineering	●				●
Civil and Construction Engineering	●				
Electrical and Electronic Engineering	●				
Mechanical Engineering	●				
Mechatronic Engineering	●				
Metallurgical Engineering	●				
Mining Engineering	●				
<b>Bachelor of Laws</b>					
<b>Bachelor of Science</b>					
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					
<b>Bachelor of Technology</b>					
Computer Systems and Networking			●		



# 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 22**

**Education**

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

**PAGE 64**



**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 78**

**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 46**



**Information technology**

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


**PAGE 100**



**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 34**



**Engineering, mining and surveying**

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

**PAGE 68**



**Indigenous**

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

**PAGE 96**



**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 106**

**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 28**





# Agriculture, environment and sustainability

## Tuning into dolphin chatter could boost conservation efforts

Curtin scientists are using sound recorders to track dolphins living in Perth’s Swan River — a complicated marine ecosystem due to its high volume of activity and noise — to assist with dolphin conservation.

## TRENDS TO WATCH

- The blue economy
- Biofuels
- Regenerative agriculture
- Plastic recycling and biodegradable products
- Indoor vegetable farming
- Ocean bed exploration

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 107)
- Surveying (page 77)

## Agribusiness

Address concerns in food security, farming systems, climate change and shifting markets.

DEGREE
Bachelor of Agribusiness
GUARANTEED ATAR
70
PREREQUISITES
Mathematics Applications ATAR, or equivalent
DESIRABLES
Animal Production Systems, Aviation, Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Marine and Maritime Studies, Physics, Plant Production Systems, Psychology, Computer Science, Applied Information Technology
STAT
Accepted
PORTFOLIO
Accepted
INTAKE
Semester 1, semester 2
STUDY MODES
Full-time, part-time
DURATION
3 years full-time
LOCATION
Perth
CRICOS CODE
029345C
LEARN MORE
<a href="http://curtin.edu/bach-agrib">curtin.edu/bach-agrib</a>

Agribusiness encompasses the entire food production system from paddock to plate, linking producers with consumers. It addresses global concerns such as food security and challenges to farming systems under a changing climate, shifting markets and increasing consumer awareness.

This course is the only Bachelor of Agribusiness offered in Western Australia. It will introduce you to the scientific and business principles that can be applied to agriculture.

You will gain scientific knowledge to develop an understanding of production systems and to apply problem-solving techniques to management strategies. You’ll be introduced to technologies used in soil, crop and livestock management systems.

You’ll engage in research-led activities, problem-solving and self-directed experiments using our field-trial site and glasshouse facilities.

You’ll work individually and as an integral part of a team, to develop your agribusiness risk and farm management skills. You’ll also have opportunities to develop links with industry experts and undertake field trips to research centres, agronomic field sites and farms.

This course includes a work placement to ensure you graduate with the science, technology and business skills needed for a thriving career in agribusiness. The placement can be with agriculture research, production or business industries locally or globally.

### Professional recognition

Graduates are eligible for membership of the Australian Institute of Agricultural Science and Technology.

### 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

### MINIMUM ATAR

N/A

### PREREQUISITES

None

### DESIRABLES

School leavers with a WACE, Agricultural College students, students who have completed a TAFE Cert III, IV or Diploma in Agriculture and mature-age students are encouraged to apply.

If you don't have a WACE, we encourage you to complete the UniReady program and apply for entry after one semester.

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

Entry to the course is by portfolio application only

### INTAKE

Semester 1, semester 2

### STUDY MODES

Full-time, part-time

### DURATION

2 years full-time

### LOCATION

Muresk

### CRICOS CODE

098315D

### LEARN MORE

[curtin.edu/ad-agrib](https://curtin.edu/ad-agrib)

Curtin offers an Associate Degree in Agribusiness at Muresk Institute in Northam and Geraldton Universities Centre, with the intensive laboratory elements delivered at Muresk.

This course will provide you with an understanding of agricultural production systems and the business principles associated with the production, processing, marketing and distribution of food.

You will graduate technically competent and commercially savvy, with contemporary agribusiness skills relevant to agricultural production, farm management and agricultural equipment sales.

The course involves a high level of exposure to practical farm management and has been created in close collaboration with industry, to ensure it meets the needs of the Western Australian agriculture and food industry.

Study themes 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.

The associate degree is also a pathway into the Bachelor of Agribusiness, providing at least 12 months credit. Pathways into other bachelor degrees are available.

## 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.

## Agriculture Science

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

### DEGREE

Bachelor of Science (Agriculture Science)\*

### GUARANTEED ATAR

70

### PREREQUISITES

Mathematics Applications ATAR

### DESIRABLES

At least one of the following: Animal Production Systems ATAR, Aviation ATAR, Biology ATAR, Chemistry ATAR, Earth and Environmental Science ATAR, Human Biology ATAR, Integrated Science ATAR, Marine and Maritime Studies ATAR, Physics ATAR, Plant Production Systems ATAR, Psychology ATAR, Computer Science ATAR, Applied Information Technology ATAR, Engineering Studies ATAR, Food Science and Technology ATAR

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

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](https://curtin.edu/bach-agric)

*\* This course can also be taken as part of the Bachelor of Advanced Science (see page 107).*

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 you 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.

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

Graduates are 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)\*

### GUARANTEED ATAR

70

### PREREQUISITES

Mathematics Applications ATAR

### DESIRABLES

At least one of the following: Biology ATAR, Chemistry ATAR, Earth and Environmental Science ATAR, Marine and Maritime Studies ATAR

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

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](https://curtin.edu/bach-coamar)

*\* This course can also be taken as part of the Bachelor of Advanced Science (see page 107).*

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 a Bachelor of Science (Coastal and Marine Science) as part of a double degree. See page 19 for double degree combinations.

## Professional recognition

Graduates are eligible for membership of the Australian Marine Sciences Association.

## 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

None

### DESIRABLES

None

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

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](http://curtin.edu/bach-ensci)

*\* This course can also be taken as part of the Bachelor of Advanced Science (see page x).*

With human exploitation of the environment having taken a serious toll on the planet, environmental scientists are needed to solve issues related to land degradation, urban and regional development, pollution, loss of biodiversity, and the impacts of mining, oil and gas extraction and processing.

In this course you will undertake environmental research and develop expertise in zoology, botany, ecology, genetics, environmental management, sustainability and statistics.

After your first year of study you'll specialise in one of the following streams:

### Wildlife Biology

Conservation and management of wildlife is increasingly important in the protection of global biodiversity.

This stream provides the knowledge and skills needed to work with wildlife, with a focus on Australia's unique fauna. It provides you with opportunities to work towards research programs with leading wildlife biologists.

### Restoration

Restoration is an AUD\$2 trillion global enterprise encompassing aquatic-to-terrestrial, desert and marine ecosystems.

Through Curtin's leading role in the national Centre for Mine Site Restoration, this unique study stream can place you at the fore of the discipline and set you on the path to advanced training.

### Genetics

Genetics and genomics have expanded rapidly in recent years and offer various career opportunities.

In this stream you will develop the practical and theoretical skills required to contribute to the field of genetics and microbiology. You'll interact with several research teams that use genetic or bioinformatic approaches in the environmental and agricultural disciplines.

### Environmental Chemistry

There is an increasing need to understand and manage the adverse effects of contaminants on the environment.

This stream will give you the chemical and toxicological skills necessary to evaluate degraded environments and implement strategies to restore environmental health.

## Career information

### Careers

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

### Industries

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

## 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

### DESIRABLES

Chemistry ATAR

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

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](http://curtin.edu/bach-fsci)

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 or to further study in the expanding fields of food sciences and food securities. There are also career options in research related to food and nutrition in health and disease.

## 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

### DESIRABLES

None

### STAT

Accepted

### PORTFOLIO

Accepted

### INTAKE

Semester 1, semester 2

### STUDY MODES

Full-time, part-time

### DURATION

3 years full-time

### LOCATION

Perth, online

### CRICOS CODE

068750M

### LEARN MORE

[curtin.edu/bach-geogr](http://curtin.edu/bach-geogr)

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.

## Double degree

You can study a Bachelor of Arts (Geography) as part of a double degree. See page 19 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.



**“My tutors provided excellent resources and opportunities to learn from industry, government and community experts. During my studies, I completed voluntary work experience and paid vacation programs. Both experiences helped me gauge job prospects in the environmental field.”**

**Kayla Skinner**

Bachelor of Science  
(Environmental Science)



# Architecture and construction



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 70)



**RANKED #1**

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

QS World University Rankings by Subject 2021

## TRENDS TO WATCH

- Recyclable materials
- Smart homes
- Open, multipurpose spaces
- Decorative floors and walls
- Modular homes
- Thin skyscrapers





“I see architecture as a way for me to leave my mark on the world. It’s exciting to think that someone’s living through your creation and many generations will be using it.”

**Elisa Alanis Fuentes**  
Bachelor of Applied Science  
(Architectural Science)

## 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
DESIRABLES
None
STAT
Accepted
PORTFOLIO
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
<a href="https://curtin.edu/bach-arch">curtin.edu/bach-arch</a>

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.

## 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
DESIRABLES
Mathematics Methods ATAR or Mathematics Specialist ATAR
STAT
Accepted
PORTFOLIO
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
<a href="https://curtin.edu/bach-conm">curtin.edu/bach-conm</a>

*\* Perth intake shown.*

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.

### Professional recognition

Membership is available with the Australian Institute of Building; Australian Institute of Building Surveyors (pending accreditation outcomes); Australian Institute of Quantity Surveyors; Board of Quantity Surveyors, Malaysia (conditional registration); Chartered Institute of Building; and Royal Institution of Chartered Surveyors.

### 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.



“Curtin’s Construction Management course is industry accredited and comprehensive, which is highly valuable when committing oneself to a very competitive industry. A wide range of career options are available with this qualification, adding significant value and diversity to a four-year degree.”

**Armin van Blommestein**  
Bachelor of Applied Science  
(Construction Management)



# 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)

GUARANTEED ATAR

70

PREREQUISITES

None

DESIRABLES

None

STAT

Accepted

PORTFOLIO

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 students wishing to study this course part-time, or have sufficient credit for recognised learning.*

Interior architects offer creative, proactive and innovative design solutions for the exciting developments occurring across all areas of contemporary life.

In this degree, you will develop a strong foundation in critical design thinking and theory relating to human occupation.

You'll explore how human experience is central to interior architecture, particularly as the 'innovation economy' is calling for change to the designs of environments where we learn, work and live.

From the start of your course, you will develop the knowledge and technical skills required for professional practice. 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 career skills including communication, creative problem solving and collaborative work practice.

You must complete at least 80 hours of relevant work experience before graduating. Curtin provides you with opportunities to work with real clients. Our students have contributed design solutions for organisations such as Victoria Park Centre for the Arts and worked with industry consultants Hassell, Geyer and Cox.

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
- Specialist designer (lighting, furniture, kitchen, bathroom)
- Exhibition and event designer
- Interior design writer / critic
- Set designer.

Industries

- Interior design and architecture
- Building and construction
- Local government
- Housing
- Retail and hospitality
- Exhibition and events
- Publications.

# 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

PREREQUISITES

None

DESIRABLES

None

STAT

Accepted

PORTFOLIO

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

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

Professional recognition

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

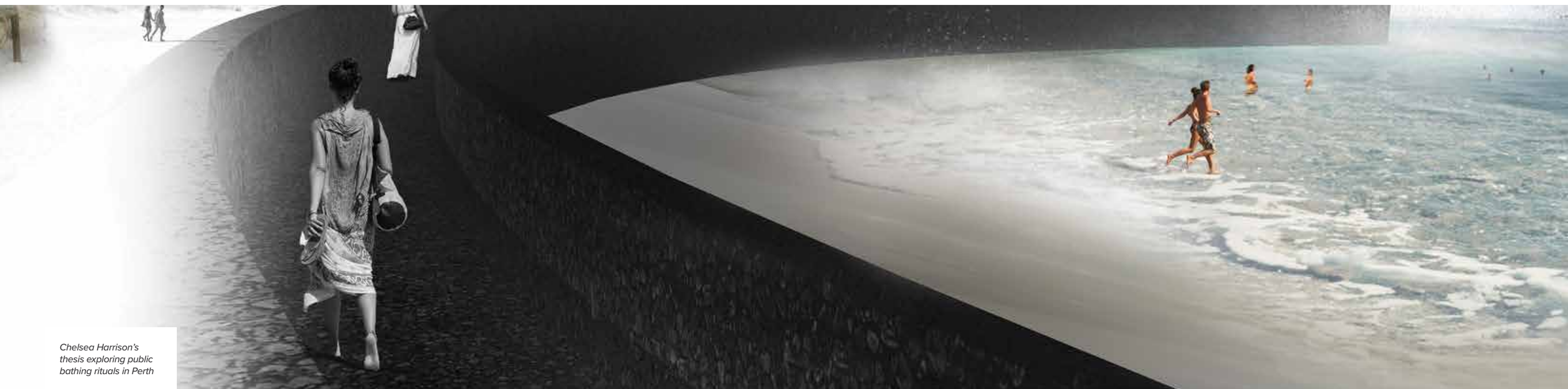
Career information

Careers

- Planner / planning designer
- Developer
- Planning consultant.

Industries

- Government
- Building and construction
- Regional development.



Chelsea Harrison's thesis exploring public bathing rituals in Perth



# Arts, culture and creative industries

Curtin fashion graduates Molly Ryan and Claudi Janse Van Rensburg and mine worker Shannon Itzstein have successfully established Second Life Workwear, a clothing recycling initiative that facilitates the redistribution of unwanted high vis mine site workwear.

## TRENDS TO WATCH

- Virtual performance art
- Science art
- Cultural branding
- Data visualisation
- Colourful minimalism

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
- Geography
- History
- International Relations
- Japanese
- Journalism
- Professional Writing and Publishing

#### Communications

#### Creative Arts

- Fine Arts
- Screen Arts
- Theatre Arts

#### Design

- Animation and Game Design
- Digital Experience and Interaction Design
- Fashion Design
- Graphic Design
- Photography

## Arts

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

### DEGREE

Bachelor of Arts

### GUARANTEED ATAR

70

### PREREQUISITES

None

### DESIRABLES

None

### STAT

Accepted

### PORTFOLIO

Accepted

### INTAKE

Semester 1, semester 2

### STUDY MODES

Full-time, part-time

### DURATION

3 years full-time

### LOCATION

Perth, online

### CRICOS CODE

068750M

### LEARN MORE

[curtin.edu/bach-arts](https://curtin.edu/bach-arts)

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

You can choose to study a single major or a double major. A single major provides more flexibility in your degree structure, while a double major offers you the benefits of studying two complementary disciplines in equal amounts.

This degree comprises 600 credits worth of units. You'll study 300 credits in the major of your choice (step 1) and 300 credits through one of the four options (step 2).

### Step 1: choose your major

Select an area that inspires you:

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

### 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 you may choose a second major from the Bachelor of Creative Arts or Bachelor of Commerce majors below:

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

#### Option 2: two specialisations

You may study any two specialisations from any of Curtin's four faculties (Humanities, Business and Law, Health Sciences or Science and Engineering) to complement your major. Examples include Chinese, Digital Design, Human Rights, Journalism and Web Media.

See the full list of specialisations at [curtin.edu/specialisations](https://curtin.edu/specialisations)

#### Option 3: a specialisation and electives

You may choose to study 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 to study eight elective units from any of Curtin's four faculties, 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](http://curtin.edu/bach-antso)

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 a Bachelor of Arts (Anthropology and Sociology) as part of a double degree. See page 19 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](http://curtin.edu/bach-chnse)

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.

Previous study of Chinese is not required. Advanced classes are provided if you have previously studied Chinese or are a native speaker of the language.

### Double degree

You can study a Bachelor of Arts (Chinese) as part of a double degree. See page 19 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
- Global business
- International relations
- 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](http://curtin.edu/bach-crwri)

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 a Bachelor of Arts (Creative Writing) as part of a double degree. See page 19 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](http://curtin.edu/bach-netcm)

It's almost impossible to participate in society today without using digital and social media. This course explores the social, cultural and political impacts of the internet, including the significance of social media.

You will learn the fundamentals of online communications and explore digital innovations, such as artificial intelligence. You'll understand how the internet is changing political systems and reshaping cultures, societies and economies, and how to navigate these changes.

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

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

This course can also studied within the web media specialisation of the Bachelor of Communications.

### Double degree

You can study a Bachelor of Arts (Digital and Social Media) as part of a double degree. See page 19 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.

#### Industries

- Media and communications
- Stakeholder engagement
- Advertising
- Marketing.

## English and Cultural Studies

Explore the power of culture and how society came to be the way it is today.

### DEGREE

Bachelor of Arts (English and Cultural Studies)

### LEARN MORE

[curtin.edu/bach-engcs](http://curtin.edu/bach-engcs)

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

This major suits students who are interested in cultural texts and social issues, and developing their creative and critical thinking, research and writing skills.

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 a Bachelor of Arts (English and Cultural Studies) as part of a double degree. See page 19 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 27.

## History

Explore the fascinations of the past to understand present-day societies and everyday life.

### DEGREE

Bachelor of Arts (History)

### LEARN MORE

[curtin.edu/bach-histr](http://curtin.edu/bach-histr)

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

Drawing on cases from Australian, international, and Aboriginal and Torres Strait Islander history, you will study the forces that have influenced the modern world, including nationalism, democracy, conflict and war, and gender and sexuality.

You will have the opportunity to learn and apply a variety of approaches to reflecting on, researching and writing history.

By exploring how the past has shaped our present world, you will hone your critical thinking and problem-solving abilities and learn how to locate, analyse and communicate information effectively, which are essential skills for a range of careers.

### Double degree

You can study a Bachelor of Arts (History) as part of a double degree. See page 19 for double degree combinations.

### Career information

#### Careers

- Policy advisor
- Research officer
- Heritage consultant
- Heritage tourism officer
- Historian
- Academic.

#### Industries

- Non-government organisations
- Local, state and federal government
- Defence and security
- Environmental and mining
- Media, arts and creative
- 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

International relations is a dynamic, multidisciplinary field that investigates the social, economic and environmental 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 political and regional globalisation in-depth, with an emphasis on the Indo-Pacific; and examine international trade, environmental change, resource management and human rights issues.

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

When coupled with Business Law or Economics you can complete this major as part of the Bachelor of Commerce.

Double degree

You can study a Bachelor of Arts (International Relations) as part of a double degree. See page 19 for double degree combinations.

Career information

Careers

- Diplomat
- Embassy / consulate / high commission official
- Human rights advocate
- Intelligence analyst
- INTERPOL agent
- Journalist
- Research officer
- Risk analyst
- Strategic policy analyst
- Political scientist

Industries

- Domestic and international law enforcement and policing
- Government
- Human rights
- International aid and development NGOs
- International business development
- International trade
- Military
- Risk analysis
- Public service.

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

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 a Bachelor of Arts (Japanese) as part of a double degree. See page 19 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

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, features 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.

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

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 a Bachelor of Arts (Journalism) as part of a double degree. See page 19 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.

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

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 a Bachelor of Arts (Professional Writing and Publishing) as part of a double degree. See page 19 for double degree combinations.

Career information

Careers

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

Industries

- Media
- Corporate communications
- Publishing
- Local government
- Public service.



“I had to do a two-week internship as a part of my course. After doing my internship at The West Australian, I was offered a full-time contract as a cadet reporter by the Editor-in-Chief.”

Brianna Dugan

Bachelor of Arts (Journalism)



Communications

Gain experience in a variety of communications, including writing, design, public relations and photography.

DEGREE
Bachelor of Communications
GUARANTEED ATAR
70
PREREQUISITES
None
DESIRABLES
None
STAT
Accepted
PORTFOLIO
Not accepted
INTAKE*
Semester 1, semester 2
STUDY MODES
Full-time, part-time
DURATION
3 years full-time
LOCATION
Perth, Dubai, Malaysia, Mauritius, Singapore, online
CRICOS CODE
018629D
LEARN MORE
curtin.edu/bach-mascoms

\* Perth intake shown.

This broad-based degree provides training for traditional media and communication roles, and will also prepare you for emerging roles that may not yet exist in these fields.

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

You'll build an extensive portfolio of work and have opportunities to connect with industry professionals, so you can graduate ready for a range of positions in the communications industry.

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
DESIRABLES
None
STAT
Accepted
PORTFOLIO
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

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.



Create your dream 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 Arts (Fine Art)
LEARN MORE
curtin.edu/bach-finart

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.





“Curtin gave me the confidence to be daring in my work. To get things right, you first need to get them wrong. Curtin was great at being a practical training ground to try daring ideas, get things wrong and that gave me confidence in my career.”

**Marcus Wong**  
Bachelor of Arts  
(Screen Arts and Creative Advertising and Graphic Design)

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

Screen-based media is an extensive industry that is growing in exciting new directions.

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

You will learn to apply screen theories to create your own works, whether in the realm of factual events or drama.

You'll use 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 post – production labs.

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

This major combines theory and practice. You'll develop practical and analytical skills while developing an understanding of a growing multi – platform industry.

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 Screen Arts as part of a double degree. See page 19 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

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 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 Theatre Arts as part of a double degree. See page 19 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.

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

DESIRABLES

None

STAT

Accepted

PORTFOLIO

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.*

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.

Create your dream degree

Step 1: choose a major

Select an area that inspires you:

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

Step 2: choose at least one design specialisation

This step usually happens after you accept Curtin's offer for your chosen major.

You can study up to two specialisations in Design. If you have interests outside the field of design, you may choose elective units or a second specialisation in a complementary study area such as business, arts or languages to gain a wider skill set.

Each option is subject to availability:

Option 1:

One Design specialisation and four elective units

Option 2:

One Design specialisation and one non-Design specialisation

Option 3:

Two Design specialisations

Available Design specialisations are:

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

*\* The Photography specialisation is not available to students who have selected Photography as their major.*

See the full list of specialisations at

curtin.edu/specialisations

Professional recognition

Professional membership is available with the Design Institute of Australia.



## 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](http://curtin.edu/bach-anigd)

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.

## 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](http://curtin.edu/bach-digde)

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.

### 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-fashn](http://curtin.edu/bach-fashn)

Learn foundations in creative thinking and innovative design practice to address local and global issues faced by the fashion industry.

This major will appeal to creative, motivated people with a keen interest in fashion and a passion for contemporary design.

You'll focus on the relationship between garment and body, using a theoretical and contextual framework for understanding the cultural significance and practice of fashion design and global trends.

You'll learn the principles of design and creative studio practice, and 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 acquire skills, knowledge and contacts to prepare you for a range of career opportunities within the fashion industry.

Graduating fashion students have the opportunity to 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](http://curtin.edu/bach-grpds)

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

- Art director
- Graphic designer
- Advertising executive
- Creative director
- Creative consultant
- Production manager.

#### 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](http://curtin.edu/bach-photo)

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.

### Professional recognition

Professional membership is available with the Design Institute of Australia. Professional membership is also available with the Australian Institute of Professional Photography.

### 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

- Mobile commerce
- Virtual events
- Rising entrepreneurship
- Eco-conscious businesses
- Influencer marketing

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 is Western Australia's newest law school, offering 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

### Law

## See also

Agribusiness (page 23)

Industrial and Systems Engineering (page 71)





# 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, or equivalent
DESIRABLES
Mathematics Specialist ATAR, or equivalent
STAT
May be used to demonstrate English proficiency only
PORTFOLIO
Not accepted
INTAKE
Semester 1
STUDY MODES
Full-time, part-time
DURATION
3 years full-time
LOCATION
Perth
CRICOS CODE
038785D
LEARN MORE
<a href="http://curtin.edu/bach-actuar">curtin.edu/bach-actuar</a>

Actuaries analyse mathematical, statistical, demographic, financial and economic data to predict and assess the effects of long-term risks involved in financial decisions and planning. Actuaries may also assess when and where devastating weather events may hit, to help predict risks and their associated costs for investments or insurance.

This course is designed to provide you with the necessary skills in mathematics, statistics, data analytics, finance and economics to prepare you to work as a financial analyst organisations that deal with risk – such as banks and other financial institutions, insurance companies and government agencies.

You will develop the mathematical and statistical techniques relevant 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 you'll specialise in actuarial science or actuarial and applied statistics.

## Professional recognition

Professionally 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, HR, project management and strategic management.

DEGREE
Bachelor of Business Administration
GUARANTEED ATAR
70
PREREQUISITES
None
DESIRABLES
None
STAT
Accepted
PORTFOLIO
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
<a href="http://curtin.edu/bach-busadm">curtin.edu/bach-busadm</a>

*\* Perth intake shown.*

The Bachelor of Business Administration will help you become a highly adaptive graduate.

You'll be cross-skilled in various areas of business, be ready to work in a dynamic environment, 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 will value.

In your first semester, you'll study two business specialisations of your choice, plus a choice of another business discipline, a specialisation from outside business or elective units, to suit your aspirations.

You'll develop a personalised plan that will guide you throughout your degree, helping you develop a portfolio of skills and capabilities that strategically align with your career goals.

In your final year, you'll undertake a Capstone Experience.

## Study our foundation units

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

Following this, you'll complete management foundation units aligned to global trends. You'll develop skills across marketing, finance, human resources, project management and strategic management.

## Customise your degree

### Step 1: Choose two business specialisations

You'll select your specialisations during your first semester:

- Accounting for Business Decisions
- Advertising
- 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
- Tourism and Hospitality Essentials
- Workforce Management.

### Step 2: Complement your business specialisations

You'll select one of three options:

#### Option 1: Select a third business specialisation

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

#### Option 2: Choose an arts, design or science specialisation

You can select a specialisation from another area, such as Chinese Language, Digital Design, Environmental Planning, Journalism, Social Justice or Web Media, to help you enter a specific industry.

See the full list of specialisations at [curtin.edu/specialisations](http://curtin.edu/specialisations)

#### Option 3: Choose 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

In your final year, you will also undertake a Capstone Experience\* to further your practical skills and international business knowledge.

You'll have a choice of the following Capstone Experiences:

- Enhancing Your Business Mind
- Business Innovation Lab
- Business Internship
- Interactive Study Tour
- Business and Law International Experience
- Business Study Tour

*\* Opportunities may vary depending on academic performance. Due to the current situation surrounding COVID-19 please also be advised that opportunities may be revised, postponed or cancelled if there are international travel restrictions in place or if there is insufficient time to safely coordinate your experience.*

## Professional recognition

This course is designed, where possible, to conform to the membership standards of relevant professional bodies. Most of these have provision for student membership.

## Career information

### Careers

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

### Industries

- Government
- Not-for-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
DESIRABLES
None
STAT
Accepted
PORTFOLIO
Accepted
INTAKE <sup>1</sup>
Semester 1, semester 2
STUDY MODES
Full-time, part-time
DURATION
3 years full-time
LOCATION <sup>2</sup>
Perth, Kalgoorlie, Dubai, Malaysia, Mauritius, Singapore, online
CRICOS CODE
013905G
LEARN MORE
<a href="https://curtin.edu/bach-comm">curtin.edu/bach-comm</a>

1. Perth intake shown.  
2. Not all majors are offered at all locations.

The Bachelor of Commerce is a flexible degree designed to help you reach your potential and gain in-depth knowledge and skills of one or more areas of business.

You'll begin by applying for the Bachelor of Commerce. In your first year, you'll study our business core units and choose your major. You'll also get to complement your primary major with several customisation options.

This course will help develop your decision-making and leadership skills, which are essential in a future marketplace. You'll benefit from exposure to industry through field trips, internships, practical assignments, guest lectures and networking events.

In your final year, you'll undertake a Capstone Experience.

Study our business core

The course starts with our business core units, which will give you a solid foundation in business theory and practice. You will undertake the following units in your first year of study:

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

Customise your degree

Step 1: Choose your primary major

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

- Accounting<sup>1</sup>
- Audit Analytics<sup>1,2</sup>
- Business Information Systems
- Business Information Systems Extension<sup>3</sup>
- Business Law<sup>1</sup>
- Economics
- Finance<sup>1</sup>
- Financial Planning<sup>2</sup>
- Human Resource Management
- International Business
- Logistics and Supply Chain Management
- Management<sup>1</sup>
- Marketing<sup>1</sup>
- Property Investment and Development
- Property Development and Valuation Extension<sup>3</sup>
- Taxation<sup>1</sup>
- Tourism and Hospitality.

1. Available to study online.  
2. Can only be studied as part of a 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 primary major

You'll select one of four options:

Option 1: Choose 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) a second Commerce major or
- b) a secondary major from the Bachelor of Arts or the Bachelor of Creative Arts.
- Anthropology and Sociology
- Chinese
- Creative Writing
- Digital and Social Media
- Fine Art
- Geography
- History
- International Relations
- Japanese
- Literary and Cultural Studies
- Professional Writing and Publishing
- Theatre Arts.

Option 2: Choose 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.

See the full list of specialisations at [curtin.edu/specialisations](https://curtin.edu/specialisations)

Option 3: Choose one business specialisation and one arts, design or science specialisation

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

Option 4: One specialisation and four electives

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

Step 3: Choose your Capstone experience

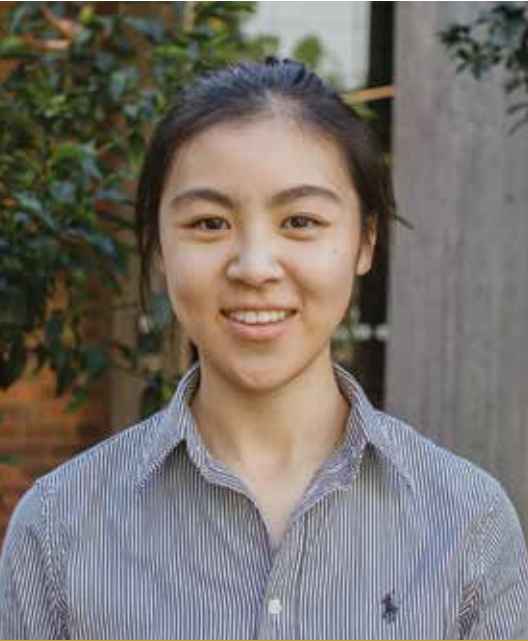
In your final year, you will also undertake a Capstone Experience\* to further your practical skills and international business knowledge.

You'll have a choice of the following Capstone Experiences:

- Enhancing Your Business Mind
  - Business Innovation Lab
  - Business Internship
  - Interactive Study Tour
  - Business and Law International Experience
  - Business Study Tour
- \* Opportunities may vary depending on academic performance. Due to the current situation surrounding COVID-19 please also be advised that opportunities may be revised, postponed or cancelled if there are international travel restrictions in place or if there is insufficient time to safely coordinate your experience.

Professional recognition

Curtin Business School is recognised as an elite business school through its accreditation by AACSB International. Commerce majors are designed, wherever possible, to conform to the membership standards of relevant professional bodies.



“Studying this course has taught me to read and understand the property market. It has given me the knowledge I need to thoroughly analyse property investments and developments.”

Helen Ye  
Bachelor of Commerce  
(Property Development and Valuation)



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

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.

Due to accreditation requirements, this major comprises 12 core units, which is more 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 the list below:
  - Audit Analytics
  - Business Law
  - Finance
  - Taxation.

Double degree

You can study a Bachelor of Commerce (Accounting) as part of a double degree. See page 19 for double degree combinations.

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 well-versed in modelling and e-commerce.

DEGREE

Bachelor of Commerce (Accounting and Audit Analytics)

LEARN MORE

curtin.edu/bach-audit

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 double 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
- 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)

LEARN MORE

curtin.edu/bach-binfo

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.

We also offer a Business Information Systems Extension major.

Career information

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)

LEARN MORE

curtin.edu/bach-buslaw

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.

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.

Economics

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

DEGREE

Bachelor of Commerce (Economics)

LEARN MORE

curtin.edu/bach-econs

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.

Double degree

You can study a Bachelor of Commerce (Economics) as part of a double degree. See page 19 for double degree combinations.

Professional recognition

You may be eligible for free student membership of the Association of Financial Advisers and the Financial Planning Association of Australia.

Upon graduation, you may also be eligible for 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)

LEARN MORE

curtin.edu/bach-fince

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.

Double degree

You can study a Bachelor of Commerce (Finance) as part of a double degree. See page 19 for double degree combinations.

Professional recognition

This major is accredited by the Financial Adviser Standards and Ethics Authority, and is also recognised as a University Affiliation Program by the CFA Institute.

You may be eligible for membership of:

- The Economic Society of Australia (WA branch)
- 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

- 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 FASEA approved degree.

DEGREE

Bachelor of Commerce (Finance and Financial Planning)

LEARN MORE

curtin.edu/bach-fnpln

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.

From 1 January 2019, 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 undertook an internship at AHG working within their HR team. It was a generalist HR role focusing on creating a functional exit survey process and presenting retention strategies from the survey data.*

*A few months after completing my internship, I was invited back part time as a member of their HR team. It has been such a valuable experience enhancing my knowledge in the world of HR, allowing me to gain transferable skills not only to my degree but to my future career.”*

**Josie Thomas**  
Bachelor of Science (Psychology),  
Bachelor of Commerce (Human Resource Management and Industrial Relations)

**Human Resource Management**

**Learn how to maximise employee wellbeing and organisational performance.**

**DEGREE**

Bachelor of Commerce (Human Resource Management)

**LEARN MORE**

[curtin.edu/bach-hrm](http://curtin.edu/bach-hrm)

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.

**Double degree**

You can study a Bachelor of Commerce (Human Resource Management) as part of a double degree. See page 19 for double degree combinations.

**Professional recognition**

This course is accredited by the Australian HR Institute (AHRI). You may be eligible for membership of AHRI once you graduate.

**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
- Services.

**International Business**

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

**DEGREE**

Bachelor of Commerce (International Business)

**LEARN MORE**

[curtin.edu/bach-intbus](http://curtin.edu/bach-intbus)

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.

**Double degree**

You can study a Bachelor of Commerce (International Business) as part of a double degree. See page 19 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)

**LEARN MORE**

[curtin.edu/bach-lgscm](http://curtin.edu/bach-lgscm)

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.

**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
- Government
- Private business
- Resources.



*“During my course, I was able to take part in a range of hands-on learning opportunities such as in-class supply chain simulations, a business-specific study tour to Dubai and an internship within the resources sector. The Curtin campus is a fantastic environment to study in.”*

**Rogan Pringle**  
Bachelor of Commerce (Logistics and Supply Chain Management)



Management

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

DEGREE

Bachelor of Commerce (Management)

LEARN MORE

curtin.edu/bach-mngmt

Management knowledge and skills are valued and needed in small-to-medium enterprises, not-for-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 resourcesThis 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.

Double degree

You can study a Bachelor of Commerce (Management) as part of a double degree. See page 19 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
- Team leader.

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)

LEARN MORE

curtin.edu/bach-mrktg

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.

Double degree

You can study a Bachelor of Commerce (Marketing) as part of a double degree. See page 19 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 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)

LEARN MORE

curtin.edu/bach-prop

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.

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/bach-prptyex

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

This major meets the education requirements for graduate membership of the Royal Institution of Chartered Surveyors (RICS) and the Australian Property Institute (API).

You will be eligible for membership of the API at Certified Practising Valuer level and Associate Member status of the RICS following successful completion of the required practical experience.

It also satisfies the academic qualification requirements to be eligible for registration as a real estate sales representative as prescribed under regulation 6 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.

This major 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.



“I love that Property is not just accounting, economics or global business trends, but a combination of all those areas and more. This diversity means every day is different and enables life-long learning and growth.

The course structure ensures we’re not just working on hypothetical situations in the classroom, but on real-world problems alongside industry professionals.

I was lucky enough to undertake an internship as part of my studies which gave me valuable industry experience. This experience was immensely beneficial, especially when I was interviewed for employment in my final year.”

Olivia Spano

Bachelor of Commerce (Property)



Taxation

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

DEGREE

Bachelor of Commerce (Taxation)

LEARN MORE

curtin.edu/bach-tax

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.

Double degree

You can study a Bachelor of Commerce (Taxation) as part of a double degree. See page 19 for double degree combinations.

Professional recognition

This course is recognised by the Tax Practitioners Board; Tax Institute; Association of Taxation and Management Accountants.\*

It is accredited by CPA Australia; and the Institute of Public Accountants.\*

Graduates may be eligible for associate membership of CPA Australia and IPA. Graduates may also be eligible to enter into the program of the Chartered Accountants Australia and New Zealand.\*

\* When studied with Accounting.

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)

LEARN MORE

curtin.edu/bach-trhosp

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.

Double degree

You can study a Bachelor of Commerce (Tourism and Hospitality) as part of a double degree. See page 19 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

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

DEGREE

Bachelor of Science (Financial Mathematics)\*

GUARANTEED ATAR

80

PREREQUISITES

Mathematics Methods ATAR

DESIRABLES

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO

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-fnmat

\* This course can also be taken as part of the Bachelor of Advanced Science (see page 107).

Financial mathematicians apply mathematical models and numerical tools to practical everyday applications, such as financial markets. They gather statistical data on the financial decisions that people make, which helps business and government make better informed decisions, especially in uncertain economic climates.

This course will provide you with a range of analytical and mathematical skills, with particular relevance to statistical modelling and operations research in finance.

You will gain a strong grounding in corporate finance, financial institutions, financial markets and various branches of the financial services industry, and you can select from units in accounting, economics and business.

In your final year you'll undertake a project where you'll put your skills into practice. Examples of previous projects include investigating the relationships between foreign exchange rates and Australian currency volatility; the effectiveness of using stochastic differential equations to model stock price; and statistical analysis of a portfolio strategy based on fluctuating prices.

Professional recognition

Graduates can gain professional membership to the Statistical Society of Australia, Australian Society for Operations Research and the Australian Mathematical Society.

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.



Law

Set the bar high and become a legal practitioner.

DEGREE

Bachelor of Laws

GUARANTEED ATAR

90

PREREQUISITES

None

DESIRABLES

None

STAT

Accepted

PORTFOLIO

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

077962B

LEARN MORE

[curtin.edu/bach-laws](http://curtin.edu/bach-laws)

Give legal advice, perform legal work and appear in court as a legal practitioner. An undergraduate degree in law is the first qualification you need to practise as a lawyer in Australia.

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 law elective units focusing on topics such as forensic advocacy, employment law, family law, human rights law, native title law and policy, and European Union law. With a wide range of optional units to choose from, you can tailor your degree to suit your interests.

Most of your degree 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.

The first year of this course is delivered in semesters at Curtin Perth, while the second and third years are 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.

Double degree

You can study a Bachelor of Laws as part of a double degree. See page 19 for double degree combinations.

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

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



“I particularly enjoyed the commercial and corporate law units, which link to my current role in financial services and banking law. I also liked the Curtin Law School’s proximity to the courts, which gave me the chance to sit in hearings and watch law in action.”

Ahmad Reza Khedry  
Bachelor of Laws





# Education



## TRENDS TO WATCH

- Elearning
- Personalised learning experiences
- Interactivity
- AI and AR in the classroom
- Smart campuses

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.
DESIRABLES
At least Mathematics Applications ATAR
STAT
Accepted
PORTFOLIO
Not accepted
INTAKE
Semester 1, semester 2
STUDY MODES
Full-time, part-time
DURATION
4 years full-time
LOCATION
Perth, Kalgoorlie, online
CRICOS CODE
020852A
LEARN MORE
<a href="http://curtin.edu/bach-edec">curtin.edu/bach-edec</a>

This initial teacher education degree provides the skills, knowledge and practical learning experiences needed to teach young children (aged 0 – 8 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 will 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

- 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 ten-week full-time block (one school term).

### 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
You will need to submit a non-academic statement with your course application.
DESIRABLES
At least Mathematics Applications ATAR
STAT
Accepted
PORTFOLIO
Accepted
INTAKE
Semester 1, semester 2
STUDY MODES
Full-time, part-time
DURATION
4 years full-time
LOCATION
Perth, Kalgoorlie, online
CRICOS CODE
020853M
LEARN MORE
<a href="http://curtin.edu/bach-edpr">curtin.edu/bach-edpr</a>

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.

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

- 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 ten-week full-time block (one school term).

### Professional recognition

Curtin’s Bachelor of Education is recognised nationally as an initial pre-service teaching qualification. Graduates are eligible for registration as a teacher in all Australian states and territories, and in 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

- Mathematics Education – Mathematics Methods ATAR
- Science Education (Biology) – Mathematics Applications ATAR
- Science Education (Chemistry) – Chemistry ATAR and Mathematics Applications ATAR
- Science Education (Physics) – Physics ATAR and Mathematics Methods ATAR. You will also need to submit a non-academic statement with your course application.

DESIRABLES

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 following list: Animal Production Systems, Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Marine and Maritime Studies, Physics, Plant Production Systems, Psychology
- Science Education (Chemistry) – Mathematics Methods ATAR and Physics ATAR
- Science Education (Human Biology) – Mathematics Methods ATAR and 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 following list: Animal Production Systems, Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Marine and Maritime Studies, Physics, Plant Production Systems, Psychology

STAT

Accepted for all majors except Mathematics, Biology, Chemistry and Physics.

PORTFOLIO

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

096505C

LEARN MORE

curtin.edu/bach-edsc

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

- 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 ten-week full-time block (one school term).

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 Production 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 further information about the 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 in 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.

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.

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

DESIRABLES

At least Mathematics Applications ATAR

STAT

Accepted

PORTFOLIO

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, online

CRICOS CODE

095951M

LEARN MORE

curtin.edu/bach-educ

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).



“I chose this course because I wanted to be able to make a change – whether it was as small as putting a smile on a student’s face, or something bigger like helping a student achieve a goal. I wanted to make a difference in someone’s life.”

Hayley Probert

Bachelor of Education (Secondary Education)



# Engineering, mining and surveying

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 our Kalgoorlie campus, overseas campuses or partner institutions, such as the Sri Lanka Institute of Information Technology, during your studies.

## Courses

### Engineering

- Chemical Engineering
- Civil and Construction Engineering
- Electrical and Electronic Engineering
- Industrial and Systems Engineering
- Mechanical Engineering
- Mechatronic Engineering
- Metallurgical Engineering
- Mining Engineering
- Petroleum Engineering

### Extractive Metallurgy

### Mining

### Surveying

## See also

Earth Sciences (Advanced) (page 110)

## 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, or equivalent

### DESIRABLES

Mathematics Specialist ATAR, or equivalent

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

Not accepted

### INTAKE<sup>1</sup>

Semester 1, semester 2

### STUDY MODES

Full-time, part-time

### DURATION

4 years full-time

### LOCATION<sup>2</sup>

Perth, Dubai, Malaysia, Sri Lanka

### CRICOS CODE

072467B

### LEARN MORE

[curtin.edu/bach-engr](http://curtin.edu/bach-engr)

<sup>1</sup> Perth intake shown.

<sup>2</sup> Not all majors are offered at all locations.

Curtin's 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 Electronic Engineering
- Industrial and Systems Engineering
- Mechanical Engineering
- Mechatronic Engineering
- Metallurgical Engineering
- Mining Engineering
- Petroleum Engineering.

## Engineering Foundation Year

Developed in partnership with industry, our award-winning EFY program and its purpose-built first-year studios encourage learning by doing.

The EFY's cross-disciplinary curriculum was developed as a base for all Curtin engineering disciplines, to ensure you graduate with a solid theoretical grounding, strong practical experience and cultural awareness.

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 you 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.



#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 2021

## TRENDS TO WATCH

- Space engineering
- Nano-engineering
- Robotics
- Smart mines
- Mineral exploration



Years 2 – 4

In years 2 and 3 of your engineering degree you will study units relevant to your chosen major.

In year 4 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 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.

Chemical Engineering

Expand your range of career options in process engineering industries.

DEGREE

Bachelor of Engineering (Chemical Engineering) (Hons)

LEARN MORE

curtin.edu/bach-cheng

Chemical or ‘process’ engineering involves finding the best sequence of chemical and physical processing operations, plus the right operating conditions, to convert raw materials into higher-value products.

Chemical engineering covers the development, design and management of processes and equipment for the extraction, conversion and upgrading of materials, using physical, chemical and biological operations.

There are numerous process industries serving a range of societal needs.

You will select either the Chemical Engineering or Oil and Gas streams to study.

Chemical Engineering

In this general stream, you will examine processes for a range of materials.

You’ll explore the theory and applications of fluid flow, energy transfer, and separation and chemical reaction for the synthesis, design, control and optimisation of general chemical processes.

Oil and Gas

In addition to learning chemical engineering fundamentals, you will gain detailed knowledge of the exploration and development of oil and gas resources.

You’ll explore the behaviour of hydrocarbon reservoirs, offshore drilling and production, the refining of crude oil and processing of natural gas.

Double degree

You can study a Bachelor of Engineering (Chemical Engineering) (Hons) as part of a double degree. See page 19 for double degree combinations.

Professional recognition

Graduates fulfil the stage one competencies required by Engineers Australia for a professional engineer.

Career information

Careers

- Chemical engineer
- Process engineer
- Production / operations engineer
- Risk and safety manager.

Industries

- 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) (Hons)

LEARN MORE

curtin.edu/bach-ccoeng

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 specialty 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 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 a Bachelor of Engineering (Civil and Construction Engineering) (Hons) as part of a double degree. See page 19 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 Electronic Engineering

Gain a thorough understanding of the fundamentals of electrical and electronic engineering before focusing on the stream that interests you.

DEGREE

Bachelor of Engineering (Electrical and Electronic Engineering) (Hons)

LEARN MORE

curtin.edu/bach-eleeng

Rapid advances in electronic communication, the internet of things, and renewable and sustainable energy offer abundant career opportunities in electrical and electronic engineering.

You’ll gain a thorough understanding of the concepts that underpin electrical and electronic 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 stream 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 stream 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 stream, you will learn the theoretical and practical aspects of embedded systems, sensors and electronic design.

Double degree

You can study a Bachelor of Engineering (Electrical and Electronic Engineering) (Hons) as part of a double degree. See page 19 for double degree combinations.

Professional recognition

Graduates fulfil the stage one competencies required by Engineers Australia for a professional engineer. This course has also been formally endorsed by the Naval Shipbuilding College.

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.

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) (Hons)

LEARN MORE

curtin.edu/bach-indsyseng

Industrial and systems engineering focuses on the design and optimisation of a whole system rather than individual components. Industrial and system engineers explore problems in their entirety to create holistic solutions and processes for complex projects.

In this engineering major you will learn how to use your analytical and problem-solving skills to make systems more efficient, safe and cost effective.

You’ll learn knowledge and skills in related engineering fields including mechanical and mechatronics, as well as industrial, applied and financial mathematics.

You’ll also develop specialised theoretical knowledge and practical skills in key areas of mechanical design, manufacturing, system control, operations research, modelling, simulation and optimisation of industrial processes.

As a graduate, you’ll be equipped to play an integral role in business and industry where the continual improvement of complex systems and processes is key to success.

Professional recognition

This major has received provisional accreditation from Engineers Australia. This course has been formally endorsed by the Naval Shipbuilding College.

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.





*“Studying industrial and systems engineering lets me use my problem-solving skills and satisfy my curiosity for discovering how things work. The course has an industry focus that makes you feel like you’re closer to becoming an engineer with every step.”*

**Luke Daniel Scott**  
Bachelor of Engineering  
(Industrial and Systems Engineering)  
(Hons)

### Mechanical Engineering

Analyse and develop machines and moving systems.

#### DEGREE

Bachelor of Engineering (Mechanical Engineering) (Hons)

#### LEARN MORE

[curtin.edu/bach-mceng](http://curtin.edu/bach-mceng)

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.

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 a Bachelor of Engineering (Mechanical Engineering) (Hons) as part of a double degree. See page 19 for double degree combinations.

#### Professional recognition

Graduates fulfil the stage one competencies required by Engineers Australia for a professional engineer. This course has also been formally endorsed by the Naval Shipbuilding College.

#### 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) (Hons)

#### LEARN MORE

[curtin.edu/bach-mxeng](http://curtin.edu/bach-mxeng)

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 a Bachelor of Engineering (Mechatronic Engineering) (Hons) as part of a double degree. See page 19 for double degree combinations.

#### Professional recognition

Graduates fulfil the stage one competencies required by Engineers Australia for a professional engineer. This course has also been formally endorsed by the Naval Shipbuilding College.

#### 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) (Hons)

#### LEARN MORE

[curtin.edu/bach-mteng](http://curtin.edu/bach-mteng)

Metallurgical engineers convert raw materials and minerals into usable 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 mining industry.

#### Double degree

You can study a Bachelor of Engineering (Metallurgical Engineering) (Hons) as part of a double degree. See page 19 for double degree combinations.

#### Professional recognition

Graduates fulfil the stage one competencies required by Engineers Australia for a professional engineer. The course is also recognised by the Australian Institute of Mining and Metallurgy.

#### 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.



*“I’ve always had a passion for chemistry and understanding chemical processes from a practical perspective. The most enjoyable part of my degree has been relocating to the WA School of Mines in Kalgoorlie for my third and fourth years. I was able to immerse myself in the culture and take on extracurricular roles, professional development and social events – all while being in the heart of the mining industry.”*

#### Sarah Montague

Bachelor of Engineering  
(Metallurgical Engineering)  
(Hons)



Mining Engineering

Develop the skills you need to extract minerals from underground or open-pit mines.

DEGREE

Bachelor of Engineering (Mining Engineering) (Hons)

LEARN MORE

curtin.edu/bach-mineng

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 Curtin Perth before completing your third and final years in Curtin 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 a Bachelor of Engineering (Mining Engineering) (Hons) as part of a double degree. See page 19 for double degree combinations.

Professional recognition

Graduates fulfil the stage one competencies required by Engineers Australia for a professional engineer.

After a set period of practical experience in the industry, graduates can apply to the WA Department of Mines, Industry Regulation and Safety to sit for examinations that can qualify them for various statutory Certificates of Competency (First Class Mine Manager, Underground Supervisor, and Quarry Manager).

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.

Petroleum Engineering

Learn how to evaluate, drill, develop and mine oil and gas reserves.

DEGREE

Bachelor of Engineering (Petroleum Engineering) (Hons)

LEARN MORE

curtin.edu/bach-pteng

Petroleum engineers extract oil and gas from deposits below the Earth's surface. They collaborate with other professionals to understand the geological and geophysical characteristics of particular reservoirs, before designing, testing and implementing the most effective and profitable extraction method.

Because reservoirs yield up to 30% of their oil, petroleum engineers are needed to develop methods that optimise oil and gas production. These engineers are also needed to help develop offshore gas fields.

In this major you will learn how to evaluate, drill, develop and mine oil and gas reserves. You'll study chemical engineering, drilling, fluid flow through reservoirs, formation evaluation, geology, hydrocarbon phase behaviour, oil and gas field development, petroleum production technology, thermodynamics and well completions engineering.

You will undertake practical study in fluid and reservoir rock and drilling laboratories, and gain industry exposure through field trips to service company offices, government offices, and drilling, exploration and production operation sites.

You'll also gain an understanding of global economic trends and corporate profit margins through the study of economics, risk and project management.

In your final year, you'll undertake a major research project, as well as a field development planning and design project.

Professional recognition

Graduates fulfil the stage one competencies required by Engineers Australia for a professional engineer.

Career information

Careers

- Petroleum engineer
- Drilling engineer
- Field operation engineer
- Production engineer
- Reservoir engineer
- Subsurface engineer
- Well completions engineer.

Industries

- Environmental management
- Government
- Health and safety
- Oil and gas
- Research and development
- Water treatment.





## Extractive Metallurgy

Learn to manage the operation of metallurgical processing plants in an economical and environmentally responsible way.

DEGREE

Bachelor of Science (Extractive Metallurgy)

GUARANTEED ATAR

70

PREREQUISITES

Mathematics Applications ATAR

DESIRABLES

Physics ATAR or Chemistry ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO

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-exmet](http://curtin.edu/bach-exmet)

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 will cover the chemical, physical, economic, environmental and sustainable principles and practices for the extraction of metals from ores.

Your first year will be taught at Curtin Perth, the second year at either Curtin Perth or Curtin Kalgoorlie, and the final year in Curtin Kalgoorlie, to help maximise your exposure to industry and potential future employers.

### Double degree

You can study a Bachelor of Science (Extractive Metallurgy) as part of a double degree. See page 19 for double degree combinations.

### Professional recognition

This course is recognised by the Australasian 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.

## Mining

Study mining methods, rock mechanics, geology and mine planning.

DEGREE

Bachelor of Science (Mining)

GUARANTEED ATAR

70

PREREQUISITES

Mathematics Applications ATAR

DESIRABLES

Physics ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO

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](http://curtin.edu/bach-mngsc)

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 meets the education requirements of the Western Australian Department of Mines, Industry Regulation and Safety for certification as an underground or open-pit mine supervisor. You will also meet the educational requirements for the quarry manager's certificate of competency. It is also 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

At least Mathematics Applications ATAR

DESIRABLES

Mathematics Methods ATAR

STAT

Accepted

PORTFOLIO

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

102612A

LEARN MORE

[curtin.edu/bach-surv](http://curtin.edu/bach-surv)

This course has an alternative pathway that enables you to focus on mine surveying in your third year, at the WA School of Mines (Curtin Kalgoorlie). In this pathway, you'll graduate instead with a Bachelor of Surveying Technology (Mine Surveying).

See [curtin.edu/bach-minsur](http://curtin.edu/bach-minsur).

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.





# Health



## TRENDS TO WATCH

- AI in healthcare
- Personalised healthcare
- Biosensors and wearables
- Data analytics
- Telehealth and telemedicine

If you've always wanted to help, heal and make 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.

### Courses

- Advanced Biomedical Sciences (Honours)
- Biomedical Sciences
- Exercise and Sport Science
- Health Promotion
- Health, Safety and Environment
- Health Sciences
- Laboratory Medicine
- Medical Radiation Science
- Medicine, Surgery
- Molecular Genetics (Advanced)
- 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 109)
- Multidisciplinary Science (page 112)

## Advanced Biomedical Sciences (Honours)

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 or Mathematics Specialist ATAR

### DESIRABLES

Human Biology ATAR or Biology ATAR and Physics ATAR

### STAT

Accepted

### PORTFOLIO

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](http://curtin.edu/bach-advbio)

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).





“The hands-on practical nature of the course is fantastic. I have learned how the body responds and adapts to different forms of exercise, how to cater for different client needs and goals, and how to prescribe and deliver exercise. My practical placement helped me feel confident in my ability to perform as an exercise scientist and I gained a huge amount of knowledge and confidence interacting with clients.”

**Claudia Perry**  
Bachelor of Science  
(Exercise, Sports and Rehabilitation Science)

## 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
DESIRABLES
Chemistry ATAR and Human Biology ATAR or Biology ATAR
STAT
Accepted
PORTFOLIO
Not accepted
INTAKE
Semester 1
STUDY MODES
Full-time, part-time
DURATION
3 years full-time
LOCATION
Perth
CRICOS CODE
102738J
LEARN MORE
<a href="http://curtin.edu/bach-biomed">curtin.edu/bach-biomed</a>

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.

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

Assess physical abilities, and design and implement exercise training programs for individuals and groups.

DEGREE
Bachelor of Science (Exercise and Sport Science)
MINIMUM ATAR
70
PREREQUISITES
None
DESIRABLES
Mathematics Applications ATAR, Human Biology ATAR and/or Physical Education Studies
STAT
Accepted
PORTFOLIO
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
<a href="http://curtin.edu/bach-exsprhb">curtin.edu/bach-exsprhb</a>

In this course, you’ll gain theoretical and practical understanding of exercise and sport physiology, biomechanics, motor control and learning and skill acquisition, and exercise and sport psychology.

The emphasis on client-centred practice will help you develop strong interpersonal communication, critical thinking and problem-solving skills.

In your first year, you’ll learn the foundations of exercise science and study interprofessional units with students from other health disciplines.

In your second and third years, you’ll specialise in exercise and sport science, and undertake laboratory practice and fieldwork.

You’ll develop practical skills by completing a 140 hour professional placement in a relevant organisation. Curtin has partnerships with Fremantle Football Club and Hockey Australia, so you could find yourself working alongside some of Australia’s top athletes.

If you are a high-achieving student, you may complete an additional honours year that enables you to undertake your own significant research project.

**Professional recognition**  
Upon successful completion of this course, you will be eligible to apply for accreditation with Exercise and Sports Science Australia (ESSA).

- Career information**
- Careers**
- Advanced personal training
  - Cardiac technician
  - Community sport and management officer
  - Corporate health and fitness assessor
  - Healthy lifestyle coordinator
  - Performance analyst
  - Sports coach/trainer
  - Strength and conditioning coach for community and sub-elite sporting teams.

- Industries**
- Corporate
  - Defence forces
  - Government
  - Healthcare centres
  - Hospitals
  - Industrial and mining
  - Research and development
  - Sporting teams.



## 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

DESIRABLES

At least one ATAR science course from the following list: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics or Psychology

STAT

Accepted

PORTFOLIO

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](http://curtin.edu/bach-hlprom)

In this rewarding 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 undertake 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 a Bachelor of Science (Health Promotion) as part of a double degree. See page 19 for double degree combinations.

Professional recognition

This course is accredited by the International Union for Health Promotion and Education. Graduates are eligible for IUHPE Health Promotion Practitioner Registration and also membership of the Australian Health Promotion Association and the Public Health Association of Australia.

Career information

Careers

- Community health development officer
- Health promotion officer
- Policy officer
- Project officer
- Research officer
- Workplace health coordinator.

Industries

- Community health
- Health awareness
- Injury prevention
- International aid
- Mental health
- Public and private health services.

## 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

DESIRABLES

At least Mathematics Applications ATAR and one ATAR science course from the following list: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics or Psychology

STAT

Accepted

PORTFOLIO

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](http://curtin.edu/bach-hlsfenv)

*\* Perth intake shown.*

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 Health and Safety as part of a double degree. See page 19 for double degree combinations.

Professional recognition

As a student, you are eligible to apply for membership to the Australian Institute of Health and Safety (AIHS), Institute of Occupational Safety and Health (UK) (IOSH), and Australian Institute of Occupational Hygienists (AIOH). This course is also internationally accredited by IOSH (UK) and nationally accredited by the Australian Occupational Health and Safety Education Accreditation Board (Safety Institute of Australia).

Career information

Careers

- Health and safety educator
- Health and safety environment officer
- Health and safety officer
- Health and safety workplace inspector.

Industries

- Engineering and construction
- Industrial services
- Local and state government
- Manufacturing
- Professional services
- Research and education
- Resources and energy
- Retail
- 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

DESIRABLES

Mathematics Applications ATAR and at least one ATAR science course from the following list: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics or Psychology

STAT

Accepted

PORTFOLIO

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](http://curtin.edu/bach-hlthsc)

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.

In your final year, you'll choose a specialisation: a set of units designed to hone your knowledge and skills in a particular area.

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.

Professional recognition

Students and graduates of this course can apply to become members of the Public Health Association of Australia, 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

DESIRABLES

Chemistry ATAR and/or Mathematics Applications ATAR and/or Human Biology ATAR or Biology ATAR

STAT

Accepted

PORTFOLIO

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

064464E

LEARN MORE

[curtin.edu/bach-labmed](http://curtin.edu/bach-labmed)

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, or equivalent

DESIRABLES

Mathematics Specialist ATAR, or equivalent

STAT

May be used to demonstrate English proficiency only

PORTFOLIO

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](http://curtin.edu/bach-scimrs)

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

This course is recognised by the Medical Radiation Practice Board of Australia. Registration with the Medical Radiation Practice Board of Australia is a legal requirement to practise as a graduate medical imaging or radiation therapist in 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.





“The best part about the course is how practical the teaching methods are. There is very minimal time spent in lectures – most time is spent focusing on case scenarios and clinical skills sessions. This allows for a very personalised approach as the tutors will happily address any specific concerns you have.”

**Lachlan Hou**  
Bachelor of Medicine,  
Bachelor of Surgery

Medicine, Surgery
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
DESIRABLES
Mathematics Methods ATAR, Mathematics Specialist ATAR or Mathematics Applications ATAR
STAT
May be used to demonstrate English proficiency only
PORTFOLIO
Not accepted
INTAKE
Semester 1
STUDY MODES
Full-time
DURATION
5 years full-time
LOCATION
Perth
CRICOS CODE
105741A
LEARN MORE
<a href="https://curtin.edu/bach-mbbs">curtin.edu/bach-mbbs</a>

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.

When you apply for this course you may be required to submit supplementary documents.

Please visit [curtin.edu/bach-mbbs](https://curtin.edu/bach-mbbs) and read the MBBS Admissions Guide for more information.

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.

**Molecular Genetics (Advanced)**

**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
DESIRABLES
Mathematics Specialist ATAR or Biology ATAR
STAT
May be used to demonstrate English proficiency only
PORTFOLIO
Not accepted
INTAKE
Semester 1
STUDY MODES
Full-time, part-time
DURATION
4 years full-time
LOCATION
Perth
CRICOS CODE
095949E
LEARN MORE
<a href="https://curtin.edu/bach-advngen">curtin.edu/bach-advngen</a>

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

DESIRABLES

Human Biology ATAR and Integrated Science ATAR

STAT

Accepted

PORTFOLIO

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years, 6 months

LOCATION

Perth

CRICOS CODE

041794K

LEARN MORE

curtin.edu/bach-nurs

This course has limited student places. For this reason, we recommend early application.

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).

**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

At least one ATAR science course from the following list: Biology, Chemistry, Human Biology, Integrated Science or Physics

DESIRABLES

At least Mathematics Applications ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO

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

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 Nutrition as part of a double degree. See page 19 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

At least one ATAR science course from the following list: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics, Psychology or Physical Education Studies

DESIRABLES

Human Biology, Physics and Mathematics Applications is desirable

STAT

May be used to demonstrate English proficiency only

PORTFOLIO

Not accepted

INTAKE

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

094933K

LEARN MORE

curtin.edu/bach-occt

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 is recognised by the World Federation of Occupational Therapists. Graduates using the title of registered health practitioner or the title of occupational therapist must be registered with the Occupational Therapy Board of Australia.

Registration enables you to practise occupational therapy in all Australian states and territories. After you have graduated you can also choose to be a member of the 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

DESIRABLES

Human Biology ATAR or Biology ATAR

STAT

Accepted

PORTFOLIO

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth

CRICOS CODE

074565F

LEARN MORE

[curtin.edu/bach-oralht](http://curtin.edu/bach-oralht)

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

DESIRABLES

Human Biology ATAR or Biology ATAR

STAT

May be used to demonstrate English proficiency only

PORTFOLIO

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

096304A

LEARN MORE

[curtin.edu/bach-pharm](http://curtin.edu/bach-pharm)

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).

### Health Sciences pathway

If you don't meet the prerequisites for Pharmacy, consider applying for the Bachelor of Science (Health Sciences) and selecting the Pharmacy first year stream, which you can use as a pathway into Pharmacy in your second year.

### Professional recognition

This degree is accredited by the Australian Pharmacy Council and is the only accredited undergraduate pharmacy course in Western Australia. It is recognised worldwide, although in some countries you may have to do additional training.

### Career information

Careers

- Pharmacist
- Pharmacologist.

Industries

- Clinical pharmacy
- Community care
- Hospital pharmacy
- Retail pharmacy
- Research.

## Physiotherapy

Become a qualified physiotherapist able to provide hands-on treatment and prescriptive exercise.

DEGREE

Bachelor of Science (Physiotherapy)

MINIMUM ATAR

90

PREREQUISITES

At least one ATAR science course from the following list: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics or Psychology

DESIRABLES

Physical Education Studies and Health Studies

STAT

May be used to demonstrate English proficiency only

PORTFOLIO

Not accepted

INTAKE

Semester 1

STUDY MODES

Full-time, part-time

DURATION

4 years full-time

LOCATION

Perth

CRICOS CODE

003890C

LEARN MORE

[curtin.edu/bach-phyth](http://curtin.edu/bach-phyth)

In this course you'll investigate the physical, structural and physiological aspects of the human form and movement and undertake a combination of theoretical, practical and clinical subjects.

You will learn to use an evidence-based approach to prevent, diagnose, treat and rehabilitate injuries, acute and chronic disease and disabilities using hands-on treatment, prescriptive exercise and lifestyle advice.

Your first year is interprofessional and undertaken with other health sciences students. In the following years, you will become proficient in acute and chronic conditions, and undertake intensive study in the core areas of musculoskeletal, cardiopulmonary and neurological sciences. Other areas of study include gerontology, paediatrics, gender health issues and pain management.

You will develop practical skills in laboratory classes and complete approximately 1,100 hours in supervised placements in hospitals and community settings, including those in rural and remote locations.

### Professional recognition

On graduating you are eligible to apply for registration with the Physiotherapy Board of Australia and membership of the Australian Physiotherapy Association and Australian Health Practitioner Regulation Agency (Ahpra). You may also apply for registration in New Zealand. To work in the US, UK or Canada, you will need to provide details of your program of studies to the relevant bodies and you may be required to sit a licensing examination.

### Career information

Careers

- Physiotherapist.

Industries

- Education
- Government
- Health management
- Hospitals
- Local community practice
- Nursing homes
- Rehabilitation centres
- Research
- Schools
- Sports organisations.



**“Curtin is the perfect place to study pharmacy. I’ve had extensive training in compounding labs and sterile compounding, learning how to make and manufacture medications, intravenous bag infusions, ampoules and eye drops. We undertake clinical placements at community pharmacies and hospitals, which fully prepares us for the workplace when we graduate.”**

**Keiran Batavia**

Bachelor of Pharmacy (Hons)





“Curtin’s Bachelor of Psychology provides a high-quality learning experience that has equipped me with valuable skills that I can take into the workforce and into my daily life. With the help of the kind, knowledgeable and hardworking teaching staff, I have been introduced to a range of interesting concepts that have strengthened my natural enthusiasm for psychology.”

Emmanuel Mammoliti  
Bachelor of Psychology

## 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
DESIRABLES
At least Mathematics Applications ATAR and at least one ATAR science course from the following list: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics or Psychology
STAT
Accepted
PORTFOLIO
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
<a href="http://curtin.edu/bach-psych">curtin.edu/bach-psych</a>

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 Psychology as part of a double degree. See page 19 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.

**Note:** For provisional leading to full registration with the Psychology Board of Australia, you must complete a further two years of skills-based training.

### 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
DESIRABLES
Mathematics Applications or Mathematics Methods ATAR and at least one ATAR science course from the following list: Biology, Human Biology or Psychology
STAT
Accepted
PORTFOLIO
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
<a href="http://curtin.edu/bach-psychrm">curtin.edu/bach-psychrm</a>

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 (APAC). Upon graduating you will be eligible to apply for professional membership to the Australian HR Institute (AHRI). To be eligible for associate membership of the Australian Psychological Society you must complete an additional year of undergraduate psychology study.

### Career information

#### Careers

- Clerical officer - local government
- Human resources officer
- Market researcher
- Psychologist
- Public relations officer
- Recruitment consultant.

#### Industries

- Community health
- Education
- Government
- Marketing and promotions
- Public relations
- Welfare.





“*I have a passion for working with people. Studying social work gives me a huge variety of knowledge, skills and experience, from elderly people to children, mental health to social policy. The skill most relevant is how to sensitively communicate. On my field placement, I worked alongside a multi-disciplinary team and built my professional skills in supporting people experiencing mental health distress.*”

**Charlotte Cameron**  
Bachelor of Social Work

## Social Work

Develop skills to help individuals and groups, and promote positive relationships.

DEGREE
Bachelor of Social Work
MINIMUM ATAR
70
PREREQUISITES
None
DESIRABLES
None
STAT
Accepted
PORTFOLIO
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
<a href="http://curtin.edu/bach-scwk">curtin.edu/bach-scwk</a>

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
At least one ATAR science course from the following list: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics or Psychology
DESIRABLES
At least Mathematics Applications ATAR
STAT
May be used to demonstrate English proficiency only
PORTFOLIO
Not accepted
INTAKE
Semester 1
STUDY MODES
Full-time, part-time
DURATION
4 years full-time
LOCATION
Perth
CRICOS CODE
0100583
LEARN MORE
<a href="http://curtin.edu/bach-speech">curtin.edu/bach-speech</a>

Speech pathologists work with many different people and a variety of 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 clinical practice in Curtin’s on-campus clinic, preparing to become an evidence-based clinician. You’ll manage a research project in your final year and graduate with an honours degree.

### Professional recognition

Graduates 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.



# Indigenous

### 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 CAS 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-Business and Law Enabling Course
- Indigenous Pre-Medicine and Health Sciences Enabling Course
- Indigenous Pre-Science and Engineering Enabling Course
- Indigenous Tertiary Enabling Course
- Indigenous Professional Practices
  - Indigenous Community Management and Development
  - Indigenous Australian Mental Health Principles and Practice.

## Indigenous Pre-Business and Law Enabling Course

Meet the entry requirements to study business or law.

### DEGREE

Indigenous Pre-Business and Law 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

N/A

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

Not accepted

### INTAKE

Semester 1

### STUDY MODES

Full-time

### DURATION

1 year full-time

### LOCATION

Perth

### LEARN MORE

[curtin.edu/en-prebusiness](http://curtin.edu/en-prebusiness)

This enabling course is a pathway for Indigenous Australian students interested in studying an undergraduate business or law 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 business and law courses and you may to be exempt from studying two units of your chosen degree.

## Indigenous Pre-Medicine and Health Sciences Enabling Course

Meet the entry requirements to study health sciences or 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

N/A

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

Not accepted

### INTAKE

Semester 1

### STUDY MODES

Full-time

### DURATION

1 year full-time

### LOCATION

Perth

### LEARN MORE

[curtin.edu/en-premed](http://curtin.edu/en-premed)



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.

This course is designed to provide a pre-entry pathway for Indigenous students into undergraduate courses within the Faculty of Health Sciences including medicine, and aims to give you the skills and confidence to pursue higher education in the fields of medicine and health sciences in a culturally appropriate environment.

The course will include foundation or introduction units of learning such as 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 your chosen degree.

## Indigenous Pre-Science and Engineering Enabling Course

Meet the entry requirements to study science or engineering.

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
N/A
STAT
May be used to demonstrate English proficiency only
PORTFOLIO
Not accepted
INTAKE
Semester 1
STUDY MODES
Full-time
DURATION
1 year full-time
LOCATION
Perth
LEARN MORE
<a href="http://curtin.edu/en-presci">curtin.edu/en-presci</a>

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 or two units based on what you've learned in the enabling course.

## Indigenous Tertiary Enabling Course

Become eligible to study a range of Curtin courses in only six months.

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 an online questionnaire and may be required to 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
N/A
STAT
May be used to demonstrate English proficiency only
PORTFOLIO
Not accepted
INTAKE
Semester 1, semester 2
STUDY MODES
Full-time, part-time
DURATION
6 months full-time
LOCATION
Perth, online
LEARN MORE
<a href="http://curtin.edu/en-tert">curtin.edu/en-tert</a>

The short duration of this course is ideal if you want to fast track your study. It provides key academic skills to transition into undergraduate studies.

On completion, you will be equipped with the skills and confidence you need to start university studies and 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 Indigenous health and communities.

DEGREE
Bachelor of Applied Science (Indigenous Professional Practices) <sup>1</sup>
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.
DESIRABLES
None
STAT
May be used to demonstrate English proficiency only
PORTFOLIO
Not accepted
INTAKE
Study Block 1
STUDY MODES
Full-time <sup>2</sup>
DURATION
3 years full-time
LOCATION
Perth
LEARN MORE
<a href="http://curtin.edu/bach-indigpp">curtin.edu/bach-indigpp</a>

1. You can also study this course as a two-year Associate Degree (Indigenous Professional Practices). See [curtin.edu/ad-indigpp](http://curtin.edu/ad-indigpp)

2. You are required to attend four study blocks on campus per year. See [curtin.edu/blockstudy](http://curtin.edu/blockstudy)

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.

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

Make a culturally appropriate, positive community impact.

DEGREE
Bachelor of Applied Science (Indigenous Professional Practices) (Indigenous Community Management and Development)
LEARN MORE
<a href="http://curtin.edu/bach-indigcmd">curtin.edu/bach-indigcmd</a>

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.

When you graduate, you may qualify for entry into a bachelor degree with honours and some graduate certificates, graduate diplomas and master degrees.

### Career information

#### Careers

- Community engagement officer
- Policy manager
- Project manager.

#### Industries

- Community development
- Education
- Health
- Public relations.

## Indigenous Australian Mental Health Principles and Practice

Develop the skills and knowledge you need for a career in Indigenous mental health.

DEGREE
Bachelor of Applied Science (Indigenous Professional Practices) (Indigenous Australian Mental Health Principles and Practice)
LEARN MORE
<a href="http://curtin.edu/bach-indigmhp">curtin.edu/bach-indigmhp</a>

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.

When you graduate, you may qualify for entry into a bachelor degree with honours and some graduate certificates, graduate diplomas and master degrees.

### Career information

#### Careers

- Indigenous mental health officer
- Policy manager
- Project manager.

#### Industries

- Indigenous mental health.



# Information technology

## TRENDS TO WATCH

- Edge computing
- Quantum computing applications
- Big data analytics
- Cyber security
- Growth of IoT networks
- Rise of chatbots

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, such as the Sri Lanka Institute of Information Technology, during your studies.

## Courses

Computer Systems and Networking

Computing

Data Science

Information Technology

## See also

Animation and Game Design (page 44)

Business Information Systems (page 53)

Digital and Social Media (page 37)

Digital Experience and Interaction Design (page 44)



## Computer Systems and Networking

Expand computer system capabilities and learn how to build future networks.

DEGREE

Bachelor of Technology (Computer Systems and Networking)

GUARANTEED ATAR

70

PREREQUISITES

At least Mathematics Applications ATAR, or equivalent

DESIRABLES

Mathematics Methods ATAR or Mathematics Specialist ATAR, or equivalent

STAT

May be used to demonstrate English proficiency only

PORTFOLIO

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-comsys](http://curtin.edu/bach-comsys)

*\* Perth intake shown.*

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 a Bachelor of Technology (Computer Systems and Networking) as part of a double degree. See page 19 for double degree combinations.

Professional recognition

Graduates meet Engineers Australia's Stage 1 Competency Standard for Engineering Technologists and can apply for relevant membership. This course has been formally endorsed by the Naval Shipbuilding College.

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 Computing<sup>1</sup>

GUARANTEED ATAR

80

PREREQUISITES

Cyber Security: Mathematics Methods ATAR

Computer Science: Mathematics Methods ATAR

Software Engineering: Mathematics Applications ATAR

DESIRABLES

None

STAT

May be used to demonstrate English proficiency only

PORTFOLIO

Not accepted

INTAKE<sup>2</sup>

Semester 1, semester 2

STUDY MODES

Full-time, part-time

DURATION

3 years full-time

LOCATION

Perth, Dubai, Malaysia, Sri Lanka

CRICOS CODE

0100817

LEARN MORE

[curtin.edu/bach-comp](http://curtin.edu/bach-comp)

1. This course can also be taken as part of the Bachelor of Advanced Science (see page 107).  
2. Perth intake shown.

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.

Curtin works closely with industry partners both to optimise course content and provide final-year placement opportunities.

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.

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.

You'll graduate with 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

This course is accredited by the Australian Computer Society. The Cyber Security major meets the data and security standards of the Institute of Electrical and Electronic Engineers; Association for Computing Machinery; and 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 to study a Bachelor of Science in Computing at Curtin because the course had excellent reviews and a strong, practical focus. Through the work experience component, I was exposed to a real-life software engineering project, had the opportunity to work with industry partners, and engaged with true industry practices.*

*In my view, there is no better way to cement the knowledge you've gained than to put it into practice. I feel highly prepared for a career in cyber security and have already accepted a graduate offer.”*

**Jackson Van Dyke**

Bachelor of Computing





## Data Science

Find the key to innovation, analysing big data to predict future trends and inform industry decisions.

**DEGREE**

Bachelor of Science (Data Science)\*

**GUARANTEED ATAR**

80

**PREREQUISITES**

Mathematics Methods ATAR

**DESIRABLES**

Mathematics Specialist ATAR

**STAT**

May be used to demonstrate English proficiency only

**PORTFOLIO**

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](http://curtin.edu/bach-datasc)

*\* This course can also be taken as part of the Bachelor of Advanced Science (see page 107).*

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.

**Double degree**

You can study a Bachelor of Science (Data Science) as part of a double degree. See page 19 for double degree combinations.

**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 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

**DESIRABLES**

Mathematics Methods ATAR, or equivalent

**STAT**

May be used to demonstrate English proficiency only

**PORTFOLIO**

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](http://curtin.edu/bach-infotech)

*\* Perth intake shown.*

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.

**Double degree**

You can study a Bachelor of Information Technology as part of a double degree. See page 19 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.



# Physical sciences, geoscience and mathematics

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 (Advanced)

Industrial and Applied Mathematics

Multidisciplinary Science

Physics

### See also

Actuarial Science (page 48)

Data Science (page 104)

Financial Mathematics (page 61)

Surveying (page 77)

Molecular Genetics (Advanced) (page 87)

## Advanced Science

Become a highly skilled scientist, applying your specialist knowledge to globally significant situations.

### DEGREE

Bachelor of Advanced Science (Honours)

### GUARANTEED ATAR

95

### PREREQUISITES

Each major has specific prerequisite ATAR subjects

### DESIRABLES

Each major has specific desirable ATAR subjects

### STAT

Each major has specific STAT requirements

### PORTFOLIO

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](http://curtin.edu/bach-advsci)

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. 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.

Throughout your course, 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.

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.

## TRENDS TO WATCH

- Green chemistry
- Missions to the moon and Mars
- Flying cars
- Battery technology
- AI in medicine
- Diagnostics



## Applied Geology

Learn about Earth’s fascinating geological processes that affect our environment, climate and resources.

### DEGREE

Bachelor of Science (Applied Geology)

### GUARANTEED ATAR

70

### PREREQUISITES

At least Mathematics Applications ATAR

### DESIRABLES

None

### STAT

Accepted

### PORTFOLIO

Accepted

### INTAKE<sup>1</sup>

Semester 1, semester 2

### STUDY MODES

Full-time, part-time

### DURATION

3 years full-time

### LOCATION<sup>2</sup>

Perth, Malaysia

### CRICOS CODE

003875B

### LEARN MORE

[curtin.edu/bach-geol](http://curtin.edu/bach-geol)

1. Perth intake shown.  
2. Not all streams offered at all locations.

Geologists study how the Earth works, including the natural planetary processes that directly affect people – such as the formation of mineral and petroleum resources, geological hazards, climate change and environmental protection.

In this course you will gain a thorough grounding in theoretical geology with a practical emphasis on mineral, petroleum and groundwater resources and their environmental management.

In your first year you’ll gain a foundation in geology, chemistry, physics, maths, scientific communication and computer skills. Your second year focuses on the theoretical, laboratory and field skills required to understand geological processes.

Your final year provides comprehensive coverage of one stream: Applied Geology, Mining Geology or Petroleum Geology.

The first two years of this course are based in Perth. The third-year Applied Geology stream is offered at Curtin Perth, Mining Geology is offered at Curtin Kalgoorlie, and Petroleum Geology is offered at Curtin University Malaysia.

### Applied Geology

This stream comprehensively covers the breadth of applied geosciences, including mineral and petroleum exploration and extraction techniques, groundwater resources and environmental geosciences.

### Mining Geology

This stream combines studies of resource and field geology with mining systems and resource estimation to effectively explore, evaluate and extract mineral resources.

### Petroleum Geology

This stream combines studies of sedimentary basins and petroleum geology with aspects of geophysics and petroleum engineering related to the evaluation, development and exploitation of oil and gas resources.

This stream is offered at Curtin Malaysia only; transfer to Curtin Malaysia is dependent on successful application for exchange. Additional costs may be incurred.

The Petroleum Geology stream is not available to international students studying in Australia.

### Double degree

You can study a Bachelor of Science (Applied Geology) as part of a double degree. See page 19 for double degree combinations.

### Professional recognition

Graduates of this course within Australasia may be eligible for membership of the Australasian Institute of Mining and Metallurgy. Graduates of this course in Australia may be eligible for membership of the Australian Institute of Geoscientists and 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.

## Biochemistry

From forensic science to clinical research, a biochemistry degree can lead to a range of fascinating career paths.

### DEGREE

Bachelor of Science (Biochemistry)

### GUARANTEED ATAR

70

### PREREQUISITES

Mathematics Applications ATAR and Chemistry ATAR

### DESIRABLES

Mathematics Methods ATAR

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

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](http://curtin.edu/bach-bioch)

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 the Chemistry or Environment streams:

### Chemistry

In this stream you’ll explore how an understanding of the molecular world can influence areas such as bionanotechnology, IT and new biocompatible materials.

Depending on your interests, you can learn to use sophisticated scientific instrumentation to solve complex, real-world analytical problems, or you can learn how to rationally design and synthesise new molecules for a variety of purposes.

### Environment

In this stream you’ll gain first-hand knowledge of how biochemistry and molecular biology are implemented in an environmental setting.

You’ll gain theoretical knowledge and practical skills in various environmental applications of biochemistry. This includes detecting the biochemical signals of pollution, and conducting genetic sequencing of soil microbial systems to assess the impact of human activity.

### Professional recognition

Graduates 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)\*

### GUARANTEED ATAR

70

### PREREQUISITES

Mathematics Applications ATAR and Chemistry ATAR

### DESIRABLES

Physics ATAR and Mathematics Methods ATAR or Mathematics Specialist ATAR

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

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](http://curtin.edu/bach-chemi)

*\* This course can also be taken as part of the Bachelor of Advanced Science (see page 107).*

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 streams:

### Analytical and Forensic Chemistry

In this stream 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.

### Biological Chemistry

This is a crossover field of chemistry in which 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.

You could also have a role in discovering new molecular pathways to design and synthesise new medicines.

### Geochemistry

In this stream you will study the chemical make-up of the Earth and other planets. You’ll focus on chemical reactions and processes that show how various soils and rocks are created.

### Materials Science

This stream 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.

### Double degree

You can study a Bachelor of Science (Chemistry) as part of a double degree. See page 19 for double degree combinations.

### Professional recognition

Graduates are eligible for membership of the Royal Australian Chemical Institute (RACI).

### Career information

#### Careers

- Analytical chemist
- Environmental chemist
- Forensic scientist
- Materials scientist
- Medicinal chemist
- Synthetic chemist

#### Industries

- Environment
- Forensics
- Health
- Manufacturing
- Petrochemical engineering.

## Earth Sciences (Advanced)

**This course provides a flexible and personalised approach to studying Earth sciences.**

### DEGREE

Bachelor of Advanced Science (Earth Sciences) (Honours)

### GUARANTEED ATAR

95

### PREREQUISITES

Mathematics Methods ATAR

### DESIRABLES

Chemistry ATAR

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

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-earthsci](http://curtin.edu/bach-earthsci)

Earth scientists are essential to the safe management of the environment, and to the discovery and sustainable extraction of mineral and energy resources. They 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.

This course provides a body of knowledge in Earth sciences and the skill sets for careers in a range of industries involved with Earth materials and planetary systems. These skills are gained in Curtin’s Earth sciences research groups and laboratories that are among the most highly ranked and best-equipped in Australia.

This course’s flexible and personalised approach to learning enables you to explore the field of Earth sciences through opportunities for immersive research experiences, industry placement and team-based projects.

In your capstone experience you’ll have the opportunity to pursue Earth and planetary science projects ranging from pure research through to translational (entrepreneurial) science.

This is a Bachelor of Advanced Science (Honours) course, designed for high-performing science students. If you don’t maintain the academic standard required, you’ll be recommended to transition to the Bachelor of Science (Applied Geology).

### Career information

#### Careers

- Environmental geoscientist
- Geochemist
- Geologist
- Geotechnical engineer
- Hydrogeologist.

#### Industries

- Environmental consultancy
- Climate science
- Geotechnical services
- Mineral exploration and mining
- Petroleum exploration
- Research and development.

## Industrial and Applied Mathematics

**Gain industry-relevant maths skills applicable to STEM careers, finance and sociology.**

### DEGREE

Bachelor of Science (Industrial and Applied Mathematics)\*

### GUARANTEED ATAR

80

### PREREQUISITES

Mathematics Methods ATAR, or equivalent

### DESIRABLES

Mathematics Specialist ATAR, or equivalent

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

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-apmat](http://curtin.edu/bach-apmat)

*\* This course can also be taken as part of the Bachelor of Advanced Science (see page 107).*

Mathematics is the study of concepts such as quantity, structure, space and change; and the application of these concepts to model and describe the behaviour of real-world complex systems.

Mathematics is used in most fields, including technology, natural science, engineering, medicine, finance, sociology and psychology.

You will gain knowledge in advanced calculus, linear algebra, modelling and optimisation, network design and analysis, logistics, supply chain networks, transportation networks, computational mathematics, statistics and probability.

Our industry-based units and our ability to partner in work experience programs provide you with opportunities to engage with real-world applications. Upon completing the course, you’ll have the knowledge and skills to improve the productivity of business and industry.

### Professional recognition

Graduates of this course may be eligible for membership to the Statistical Society of Australia, Australian Society for Operations Research, and Australian Mathematical Society. This course has been formally endorsed by the Naval Shipbuilding College.

### 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.



## Multidisciplinary Science

Combine more than one science discipline and graduate ready to work across merging scientific boundaries.

### DEGREE

Bachelor of Science (Multidisciplinary Science)

### GUARANTEED ATAR

70

### PREREQUISITES

None

### DESIRABLES

None

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

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-mtdsc](https://curtin.edu/bach-mtdsc)

In many areas of scientific endeavour, knowledge across multiple disciplines has provided innovative solutions to important problems. This course provides a well-rounded and diverse skill set, preparing you for a career that can span science, technology and mathematics.

Multidisciplinary science is a flexible course that allows you to design a major that suits your background and career goals. You have the freedom to personalise your study plan in consultation with Curtin staff, while meeting the requirements for a degree in science.

You can combine science disciplines from agriculture, biochemistry, biology, chemistry, computing, environmental, geology, mathematics and physics – which may open the door to various STEM careers or to further science education.

Alternatively, you can combine study of a science discipline with study from another faculty for careers in biomedical science, bioinformatics, genetics, food science, digital design, visualisation, management, professional writing or languages.

You can also use Multidisciplinary Science as a pathway into another course (such as those listed below) if you don't have that course's prerequisites.

### Data Science, Engineering, Mathematics and Physics

If you'd like to study Data Science, Engineering, Mathematics or Physics but you don't have the prerequisite subject/s, you can complete them in Multidisciplinary Science, along with other units from your preferred course.

If you need to improve your ATAR, complete a minimum of 100 credit points in one semester (including the prerequisite subject/s you lack), and achieve a semester weighted average of more than 65%.

### Medical Radiation Science

If you'd like to study Medical Radiation Science but don't have the mathematics or physics prerequisites, you can complete them in Multidisciplinary Science, along with other units from Medical Radiation Science.

If you need to improve your ATAR, complete a minimum of 75 credit points in one semester (including the prerequisite subjects you lack) and achieve a course weighted average of more than 80% to be considered. Places are limited and entry is competitive, so you may need a higher average in a given enrolment period.)

## Physics

Reach for the stars, studying matter and energy in all their forms.

### DEGREE

Bachelor of Science (Physics)\*

### GUARANTEED ATAR

80

### PREREQUISITES

Mathematics Methods ATAR and Physics ATAR, or equivalent

### DESIRABLES

Mathematics Specialist ATAR and Chemistry ATAR

### STAT

May be used to demonstrate English proficiency only

### PORTFOLIO

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](https://curtin.edu/bach-physi)

\* This course can also be taken as part of the Bachelor of Advanced Science (see page 107).

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 streams:

### Applied Physics

In this stream 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 stream 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 stream 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 stream will prepare you to work as a physicist or mathematician.

### Double degree

You can study a Bachelor of Science (Physics) as part of a double degree. See page 19 for double degree combinations.

### Professional recognition

You will be eligible for membership of the Australian Institute of Physics (AIP). Many international equivalents of the AIP also accept graduates as members.

### 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.



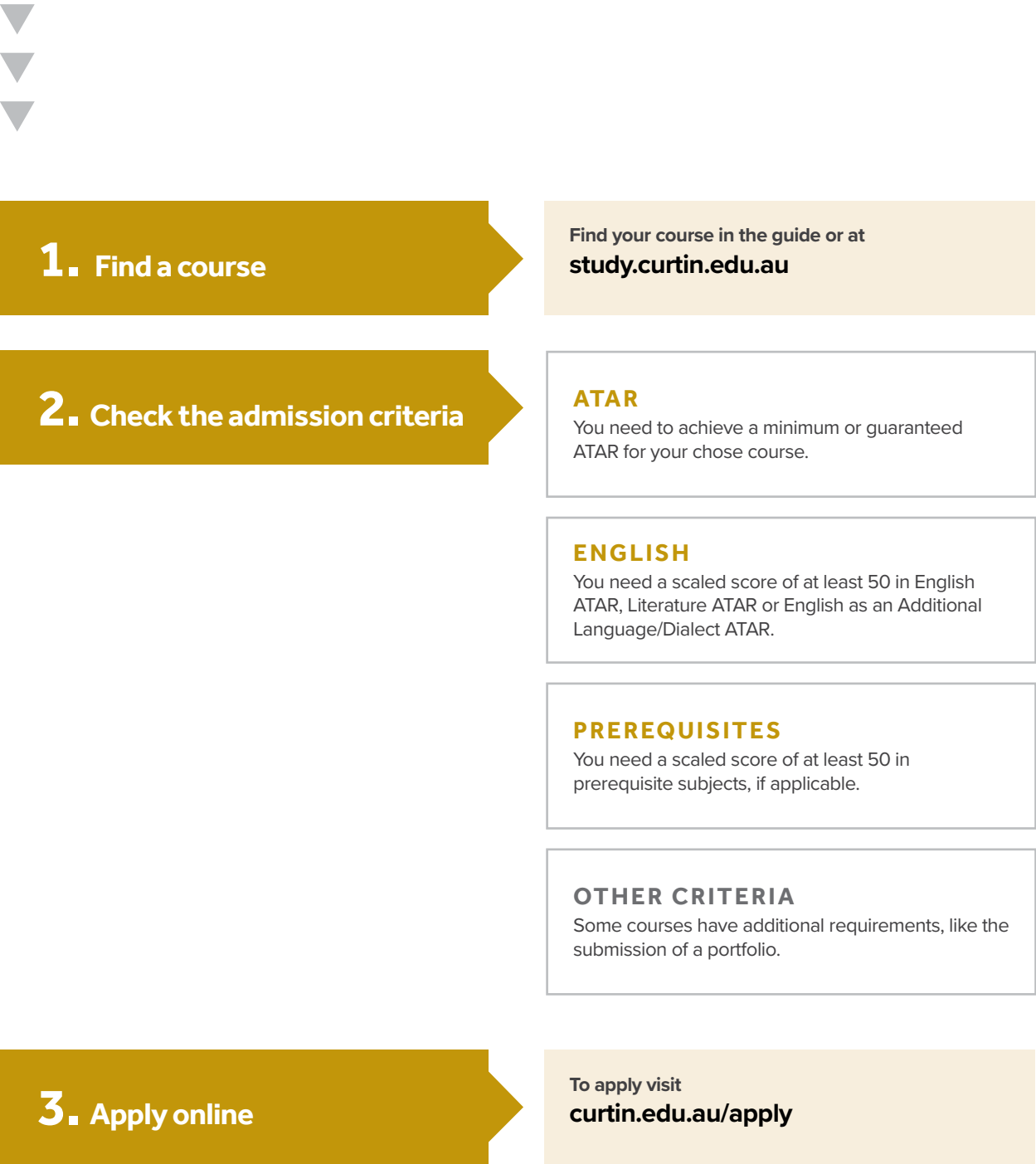
*“I want to pursue a career in astronomy research. Curtin has a good connection with the International Centre for Radio Astronomy Research (ICRAR) and very knowledgeable lecturers in astronomy subjects. The lecturers have been great at providing us with opportunities outside of the course, such as inviting industry professionals to view our presentations.”*

**Lisa Smith**

Bachelor of Science (Physics)



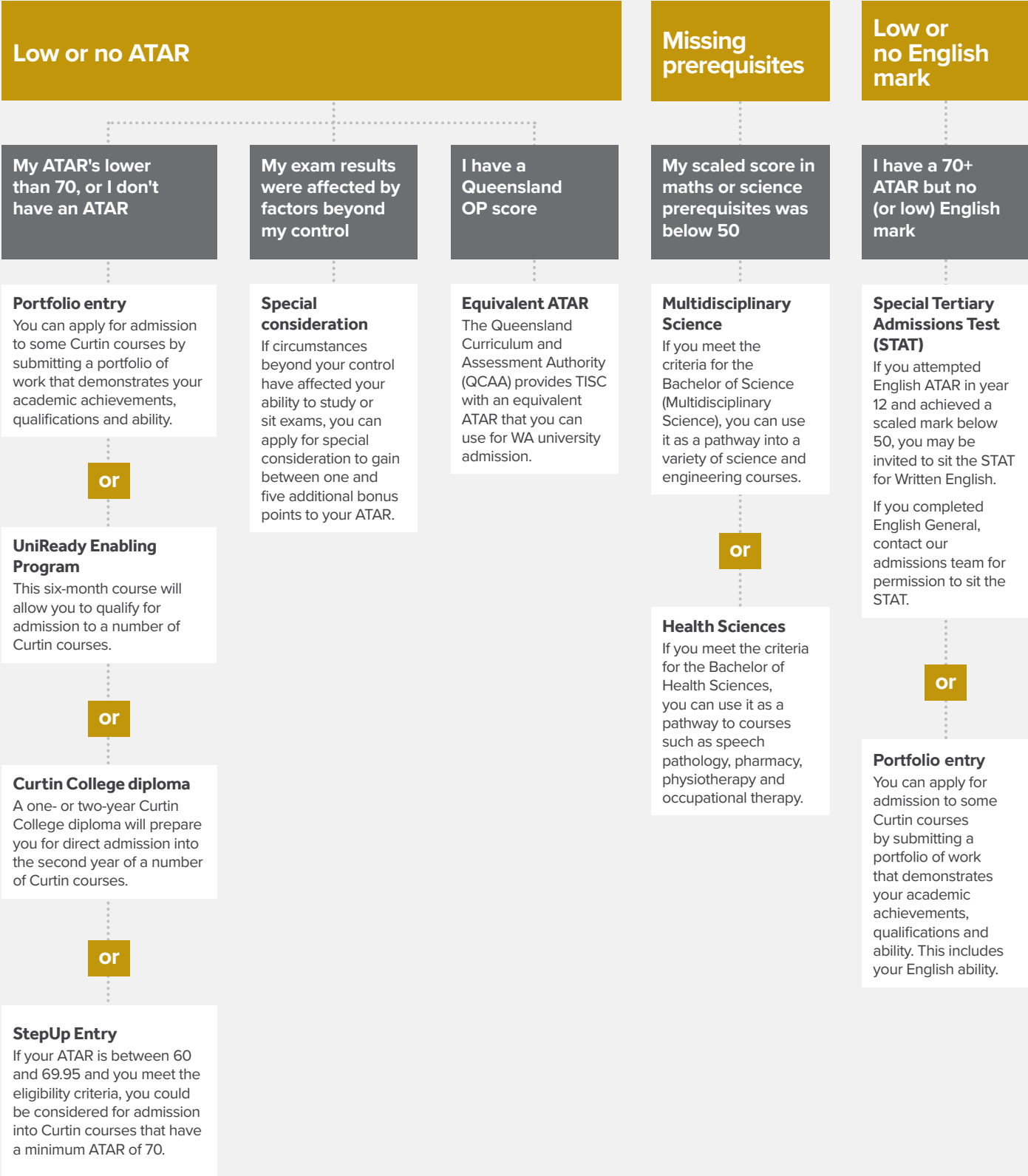
# How to apply



# 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 you can take, but there are more. Visit [curtin.edu.au/pathways](http://curtin.edu.au/pathways) for all the ways you can gain entry to Curtin.





# 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 it back. 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). Applying for a USI is fast and free, and you keep the same USI for life. Apply at [usi.gov.au](https://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](https://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 and it takes effect involuntarily if you have provided Curtin with your tax file number, and if you don't pay your student contribution up-front by the study period due date.

Visit [studyassist.gov.au/help-loans](https://studyassist.gov.au/help-loans).

*International students are not eligible for Commonwealth-supported places and should contact Curtin Global for fee information.*

**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 non-academic services and amenities, 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](https://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 HELP debt. You may opt to access the SA-HELP loan even if you don't wish to access any of the other HELP loan schemes.

Visit [studyassist.gov.au/help-loans/sa-help](https://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 an individual basis and must meet other specific criteria. Services to students include:

- Abstudy
- Health Care Card
- rent assistance
- student financial supplement
- Youth Allowance.

Visit [servicesaustralia.gov.au/centrelink](https://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 discounts both on and off campus. In conjunction with the Curtin Bookshop, the Guild offers 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 [stadium.curtin.edu.au/sport/academy](https://stadium.curtin.edu.au/sport/academy).

# 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.

Scholarships are not loans – the money is given to you provided you fulfil key requirements such as academic performance, work experience or volunteer commitments.

There are many scholarships available. Some are offered for academic achievement, such as the Curtin Excellence Scholarship, while others are designed to make university possible for students who face financial hardship.

**Eligibility criteria**

Scholarships are offered through a competitive process for students who are:

- from low-income backgrounds
- from Indigenous 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](https://scholarships.curtin.edu.au).





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# Getting to Curtin Perth

Curtin 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 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 new 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 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.

### 2 Curtin Stadium

The stadium includes a fitness centre and facilities for tennis, basketball, volleyball, table tennis, badminton, netball, futsal, floorball and group fitness classes.

### 3 Exchange

Exchange is our new innovation precinct, home to our two new student accommodation buildings and the School of Design and the Built Environment.

### 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 Health Services Centre and Counselling Service

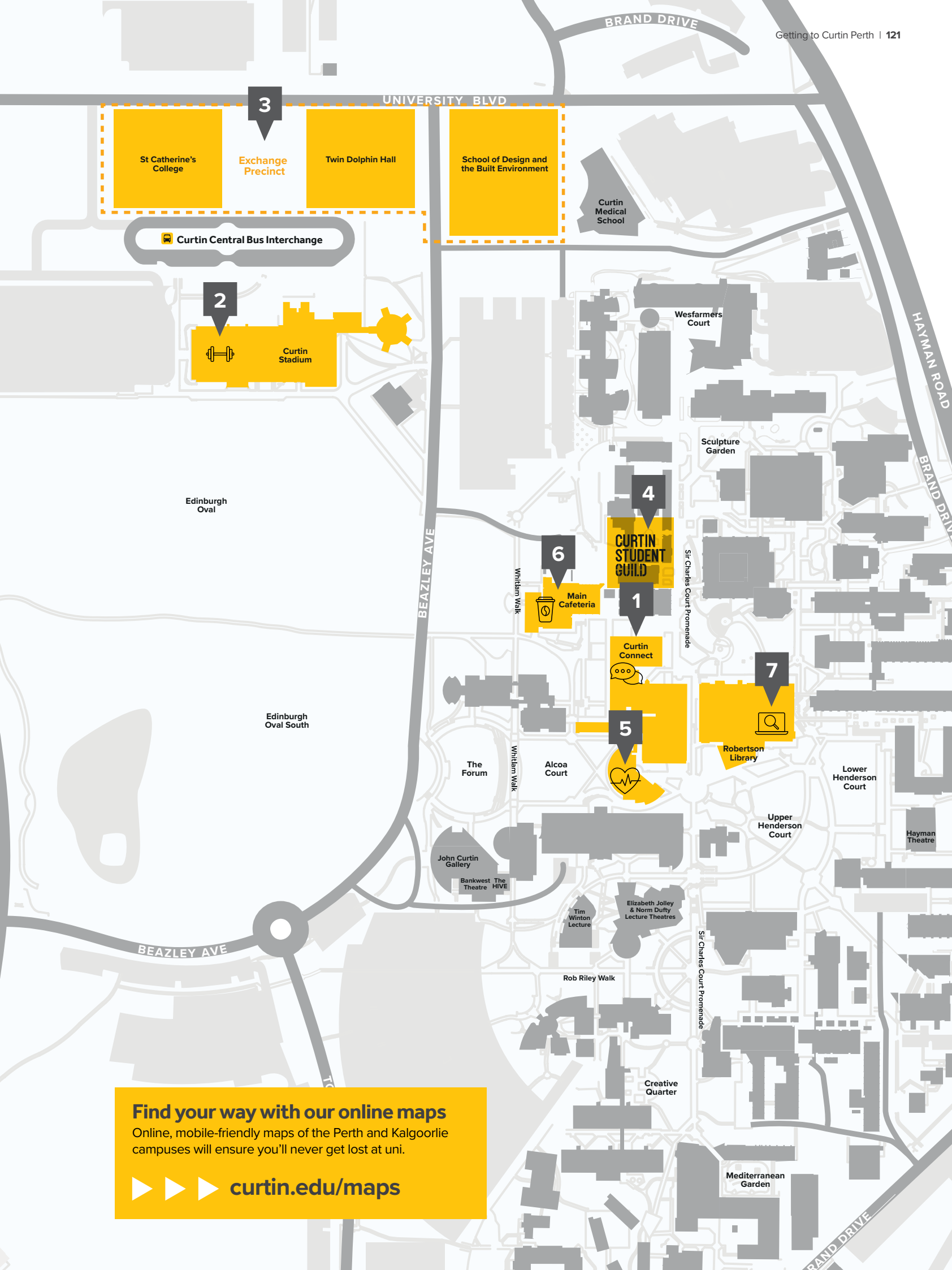
The centre includes a medical centre where you can visit either a doctor or nurse. You'll also have access to psychologists and social workers.

### 6 Main Café and Common Ground Café

There are 12 food outlets at the main campus and several food trucks that change locations daily throughout semester.

### 7 Robertson Library

The Robertson Library is spread over five levels and includes the Bookmark Café, Lounge, iZone and wireless internet. During semester, it's open 24/7.



### Find your way with our online maps

Online, mobile-friendly maps of the Perth and Kalgoorlie campuses will ensure you'll never get lost at uni.

▶▶▶ [curtin.edu/maps](https://curtin.edu/maps)





## For more information

### Curtin University

Kent St, Bentley  
Western Australia 6102

### Postal address

GPO Box U1987  
Perth Western Australia 6845

Tel: 1300 222 888  
Web: [study.curtin.edu.au](http://study.curtin.edu.au)

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