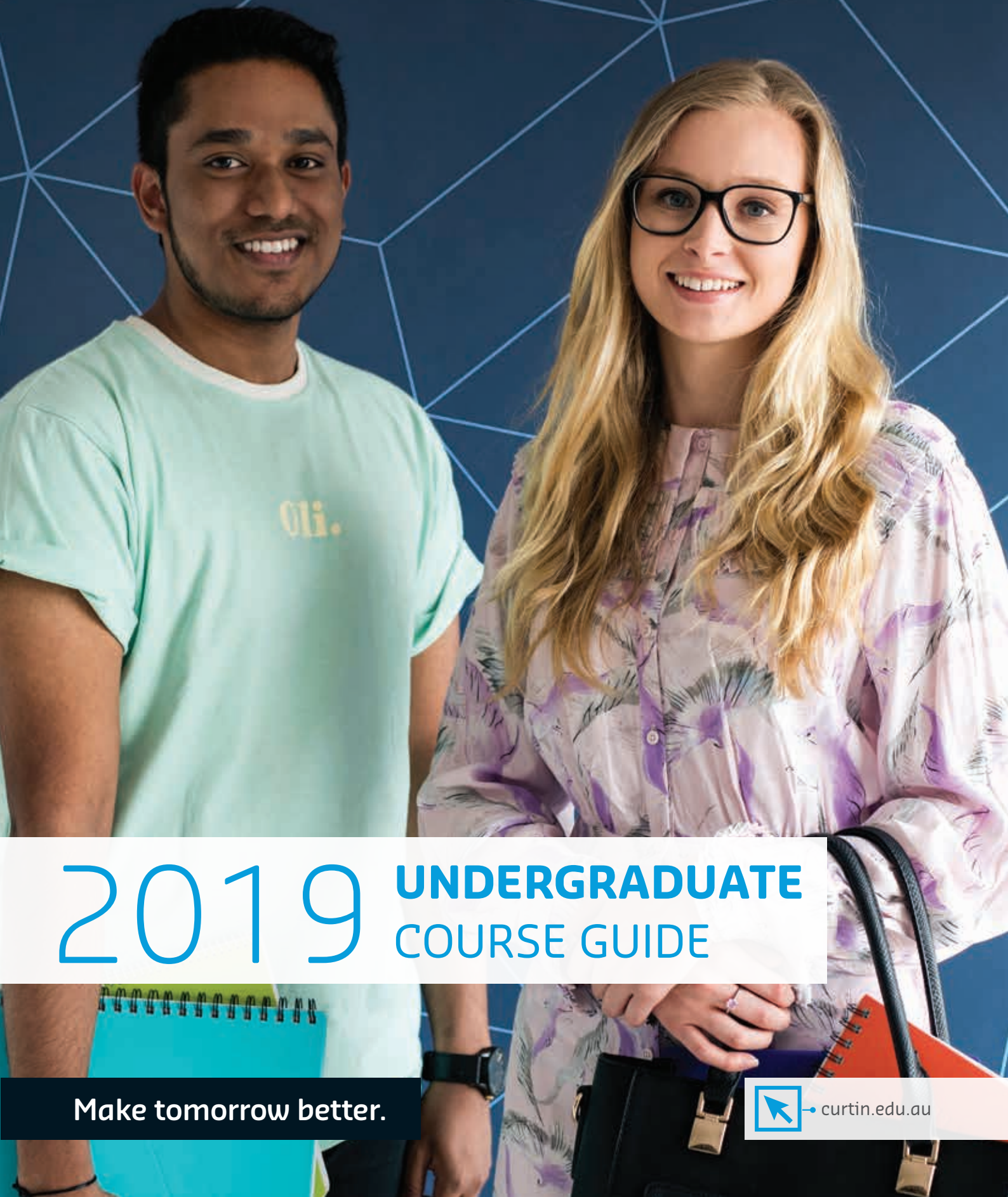




Curtin University



# 2019 UNDERGRADUATE COURSE GUIDE

Make tomorrow better.



[curtin.edu.au](http://curtin.edu.au)



This publication is available in alternative formats on request.

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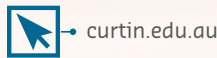






# A GLOBAL UNIVERSITY

Singapore



Start your career with our globally recognised courses and extensive industry connections. You'll be immersed in technology-rich environments and inspired by innovation, creativity and high-impact research.

Curtin University is Western Australia's largest university, welcoming more than 56,000 students, around a quarter of whom come from a country other than Australia.

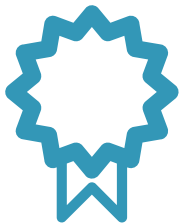
Established in 1986, the university takes its name from the widely respected former Prime Minister of Australia, John Curtin, and embraces his philosophy to "look ever forward," instilling a culture of innovation in its teaching and research.

Our growing international reputation has seen us rise up the international university rankings in recent years. We're now ranked in the top one per cent of universities worldwide in the prestigious Academic Ranking of World Universities 2017.

And our global footprint is expanding, with campuses in Western Australia, Asia and the Middle East.



**Ranked in the top one per cent of universities worldwide**  
Academic Ranking of World Universities 2017



**#2 in the world for mineral and mining engineering**  
QS World University Rankings by Subject 2018



In addition to our main campus in Perth, we have campuses in Kalgoorlie, Singapore, Malaysia and Dubai as well as course delivery through more than 90 partner institutions worldwide.

Depending on your course, you could study at one of our campuses or one of our partner institutions across the globe. Some courses allow you to switch between campuses while others can be studied online.

## PERTH

Our main campus in Bentley, located six kilometres from central Perth, is a place of inspiration and innovation. With learning spaces that recreate real work environments and opportunities to meet people from around the world, your experience here can be life changing.

## PERTH CITY

The Curtin Law School and the Curtin Graduate School of Business are situated in the heart of Perth city centre, close to business, industry and the Law Courts.



Our main campus in Perth

## KALGOORLIE

The Kalgoorlie campus puts Curtin WA School of Mines students in the heart of WA's most historic mining region. The school offers internationally recognised courses in mining engineering, metallurgical engineering, geographic information science, surveying, extractive metallurgy, applied geology and exploration geophysics.

## MALAYSIA

Located near the city of Miri on the island of Borneo, Curtin Malaysia has a beautiful garden campus nestled between the world's oldest rainforest and the South China Sea. You can enjoy warm weather all year, indulge in the local culture and food, and discover the area's natural wonders.



Curtin Dubai

## SINGAPORE

Singapore is one of the world's most cosmopolitan cities and one of the major economic hubs of Asia. Curtin Singapore is the perfect place to immerse yourself in the world of international business and commerce or you could choose to study mass communications or nursing here.

## DUBAI

At Curtin Dubai, you'll study in a city famed for its luxury lifestyle, incredible architecture and geographical importance. The campus provides flexible access to highly regarded programs for students in the Middle East, India, Africa and Central Asia.



Curtin Malaysia





Technology-rich learning environments recreate real workplaces to enhance your studies and give you the practical experience you need before you graduate.

#### THE AGENCY

Experience first-hand how major global brands monitor their digital presence. The facility features a brainstorming and strategising area, and a media command centre so you can follow live event and campaign posts on social media platforms.



#### CURTIN MEDICAL SCHOOL

Expecting a stark, clinical setting? The colourful, creative interior of the medical school may surprise you. Featuring collaborative, state-of-the-art learning spaces, it's a departure from the traditional classroom model.



#### FORMULA RACING

If you want to get involved in a real-world engineering design project, join the Curtin Motorsport Team, who build open wheel formula cars to compete in the annual Australasian Formula SAE competition.



#### THE HIVE

Interact with 3D virtual worlds and panoramas in The HIVE (Hub for Immersive Visualisation and E-Research). It's a quantum leap in the presentation and analysis of complex data.



#### HAYMAN THEATRE

Discover the art of professional public theatre production in our well-equipped, boutique theatre. The venue stages up to 25 productions per year, directed by students, staff and professional artists-in-residence.



#### STOCK MARKET TRADING ROOM

Get immersed in the world of financial data. Simulating a real-life business environment with 20 Bloomberg Professional licences and Wall Street-inspired terminals, the Trading Room is buzzing with activity.



#### ENGINEERING PAVILION

The innovative design and technologies in the spacious Curtin Engineering Pavilion Complex double up as hands-on learning tools for engineering students, providing interactive visualisations of the building's mechanical and chemical processes.



#### SIMULATED HOSPITAL WARD

Recreating the environment of Perth's Fiona Stanley Hospital in amazing detail, the simulated hospital ward supports virtual and augmented realities, with anatomage tables and full-body computerised mannikins with life-like features.

#### REAL-WORLD EXPERIENCE

Many courses offer an opportunity to apply for an internship during your studies.

In 2017, nearly four in ten internship students were hired by their internship employer on graduation.



[youtube.com/curtinuniversity](https://www.youtube.com/curtinuniversity)  
See these facilities in action on our YouTube channel!





## CURTIN OPEN DAY, SUNDAY 29 JULY 2018

Curtin Open Day is our biggest event of the year and your chance to discover what it's like to study at university.

As you explore the campus, you'll get to speak with staff and students about our courses, your career ambitions and the transition from high school to university. You can also check out the facilities that Curtin students enjoy and make the most of free entertainment and activities.

Visit the Future Students team on the day for information on scholarships, mature-age entry, alternative pathways and more.

If all that campus exploration is making you hungry, treat your taste buds to some gourmet food at outlets across campus or get your sugar fix with some free fairy floss.

[OPENDAY.CURTIN.EDU.AU](http://OPENDAY.CURTIN.EDU.AU)

## INFORMATION SESSIONS IN 2018

Open Day isn't the only day you can visit the campus and learn about our offerings.

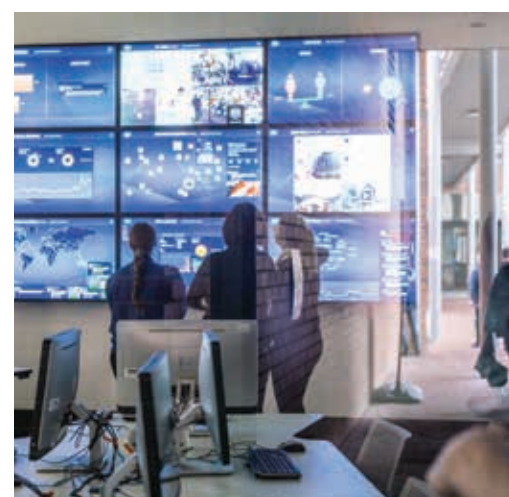
### Mature-age information sessions

We hold friendly and helpful sessions for prospective mature-age students throughout the year.

### Parent information sessions

These sessions are for the parents of students in years 10 and 12 who are considering university. They will be held on Tuesday 5 and Wednesday 6 June, 2018.

[news.curtin.edu.au/whats-on](http://news.curtin.edu.au/whats-on)







We offer a range of services and facilities to help you get involved, have fun and stay on track at Curtin.

**CURTIN CONNECT**

Located in building 102, Curtin Connect brings together a range of services for future students and current Curtin students.

Head to Curtin Connect for services related to your enrolment such as getting your student ID card and organising your timetable.

**PRE-ENROLMENT ENQUIRIES**

Get advice on Curtin's courses and the application process, and find answers to all your questions about uni life.

**SETTLING IN**

O-Week is your first week at university and you'll have lots of support from Curtin Connect and student advisors, including a mentorship program to help you settle in.

**HOUSING SERVICES**

If you're moving to Perth, you may choose to live on campus in university housing. Early application is essential because on-campus accommodation is always in high demand. We give priority to students who are new to Perth.

If you prefer to live off campus, we can help you find share housing, boarding opportunities or single rentals.

**STUDENT WELLBEING ADVISORY SERVICE**

Our confidential student wellbeing hotline and email is a good place to start if you need advice or help, or are not sure where to find the support you need.

**CAREER SUPPORT**

We offer career planning and development services to help you find employment or identify further study or career options. We can also help you select classes, find work experience while you are studying, build strong job applications and prepare for interviews.

**LEARNING SUPPORT**

We provide free workshops and online programs to help you improve your study skills. UniEnglish can help you develop your reading, writing, listening and speaking skills.

UniPass is a voluntary, peer-facilitated academic assistance program that can help you get through some of our tougher courses. The mentoring program can connect you with a senior student to help ease your transition into uni life.

**LEADERSHIP OPPORTUNITIES**

At the Curtin Leadership Centre you can develop your skills in public speaking, project management and self-awareness, and apply them through volunteering and community projects.

**THE LIBRARY**

The library has remained one of the most important buildings at Curtin, with much of the traditional library now replaced by technology-rich, café-style environments.

On level 2, the iZone has computers with large, adjustable monitors, touchscreens, bluetooth and webcam capabilities, whiteboards, graphics workstations and charging facilities for your devices.

When it's time to charge your own batteries, you can use the sleep pods installed on level 3. Designed for a 20-minute power nap, there's a timed waking system built in, so there's no chance of missing class!

We encourage you to sign up for a library tour to become familiar with library facilities, services and resources.

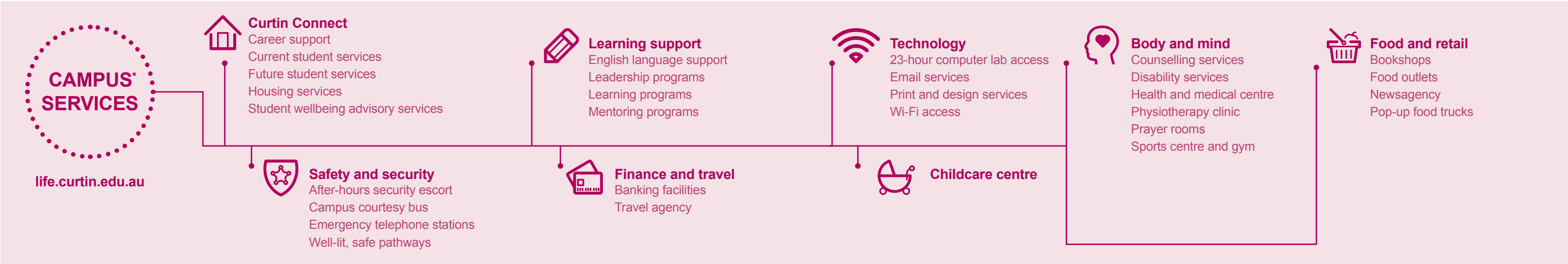
**TECHNOLOGY**

Wi-Fi can be accessed across the campus, and there are many computer labs equipped with printing stations, scanners, graphics workstations, smart boards and current software for you to use.

We offer Fill Up Your Laptop (FUYL) cells where you can recharge phone or laptop.

**SECURITY AND PERSONAL SAFETY**

To make sure the campus remains a safe and friendly place for all students, we provide a 24/7 security patrol, after-hours security escort, campus courtesy bus, emergency telephone stations, SafeZone (a free student safety app), secure-card building access and well-lit, safe pathways.



\*Main campus in Bentley, Perth. Services at other Curtin campuses may vary.





## CAMPUS LIFE (CONTINUED)

Sleep pods in the library

### BODY AND MIND

Curtin has a campus-based physiotherapy clinic and a health and medical centre where you can see a doctor, occupational therapist, social worker, psychologist or physiotherapist.

### FOOD AND RETAIL

Food choices at the main campus include cafés (two of which offer Halal food) and a tavern that regularly stages live music. Pop-up food trucks in campus hotspots offer food from around the world.

### BOOKSHOPS

The Co-op Bookshop stocks a wide range of textbooks, stationery, newspapers, magazines, novels, cards, art material and computer equipment.

Bookends, the Guild's Secondhand Bookshop, provides a textbook exchange service that enables you to sell your old textbooks and purchase cheap copies of next semester's books. The store also carries a range of safety equipment – including lab coats and safety glasses.

### TRAVEL AGENCY

Start your adventure at STA travel, where you can get travel advice, exclusive airfares, travel insurance and everything on the ground – from hostel beds to hop-on hop-off bus passes.

### STUDENT GUILD

The Curtin Student Guild is student-run and represents student interests on University boards and committees. It offers social and welfare services, and lots of extra-curricular activities, such as the Guild Ball, tavern shows, multicultural week and market days.

### CURTIN VOLUNTEERS!

Keen to help the community? Curtin Volunteers! is a student-driven hub whose mission is to provide volunteering and leadership opportunities that enhance your university experience and benefit communities across Western Australia.

### CHILDCARE CENTRE

The Curtin University Early Childhood Centre is for children under the age of five. The centre has excellent facilities and a significant amount of staff for each of the children's rooms.

Vacancies usually occur at the beginning of each year, with some changes occurring during each semester. We strongly recommend you also place applications with other child care centres to maximise your chances of gaining a place for your child.

### CURTIN EXPERIENCES

Curtin Experiences offers you a range of activities and excursions every semester. Past activities have included kayaking, stand-up paddle boarding, sailing, martial arts, boot camp and camping trips around Western Australia.

### SPORT AND RECREATION

Curtin Stadium is the home of sport, fitness, recreation and events on campus, with a main gym, women's gym, large group fitness area, indoor cycling studio, sports hall and multi-purpose courts available for hire.

There are many registered and affiliated sports clubs catering for all levels of skill and experience, so you can participate whether you're new to a sport or aim to compete at an elite level.

Curtin will support you if you are an elite athlete and wish to study. Through our Elite Athlete Program, you can choose flexible study options and may receive financial assistance to successfully combine your sports aspirations with academic study.



Jane-Anne Claxton is an Olympic hockey player and Occupational Therapy student who has benefited from Curtin's flexible study options.





## PARKING

Our smartphone-based pay-as-you-go parking system means you only pay for the time you park on campus. Download CelloPark from the App Store or Google Play and you'll be ready to park.

## TRANSPERTH BUSES

More than 500 buses stop at Curtin each weekday during semester. Curtin is only six kilometres from the city, and two high-frequency bus routes, 100 and 101, connect Curtin with the Canning Bridge train station.

The CircleRoute buses (998 and 999), which run between Perth's universities, train stations and shopping centres, leave every 15 minutes between 6.30 am and 8 pm. 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 the Waterford, Bentley, Victoria Park and South Perth areas. The service runs during semester between 7 am and 10 pm on weekdays.

[properties.curtin.edu.au/gettingaround/campbus.cfm](http://properties.curtin.edu.au/gettingaround/campbus.cfm)

## TRAINS

### MANDURAH LINE

The Perth-Mandurah train stops at the Canning Bridge train station. Transperth bus routes 100 and 101 run to Curtin from bus stand 3. The routes run every seven to eight minutes during peak times. Not all train services from Mandurah stop at Canning Bridge.

### ARMADALE LINE

The Perth-Armadale train stops at Oats Street train station. Transperth bus route 998 will bring you to Curtin. Route 999 runs in the opposite direction, from Curtin to Oats Street station. Not all train services stop at Oats Street.

## RIDE YOUR BIKE

In addition to the many bike racks, secure bike pods are an increasingly common feature on campus. Showers are also available at some bike enclosures. Entry to the facilities is by swipe card access, available from Curtin Security.

[properties.curtin.edu.au/gettingaround/bikes.cfm](http://properties.curtin.edu.au/gettingaround/bikes.cfm)



Imagine being immersed in the urban culture of New York or cycling to your classes in Amsterdam. An international experience not only gives you the chance to gain valuable life skills, it can also be a great career move.

An international experience is your chance to travel while learning, broadening your horizons and bringing you into contact with new places and new cultures.

Studying abroad has many benefits including:

- improving your cultural awareness
- developing your independence and initiative
- building your résumé
- learning a new language
- forging international networks
- exploring job opportunities outside Australia.

You can choose to go on semester exchange with one of our many partner universities in more than 20 countries or explore short-term programs, study tours, internships, clinical placements, educational practicums and volunteer opportunities.

We have campuses in Dubai, Malaysia and Singapore and partnerships with universities across Europe, Asia and North America.

In most cases your study can be credited towards your degree or towards meeting your degree accreditation requirements.

## TRAVEL GRANTS AND LOANS

Financial assistance is available to help with travel costs, including scholarships, travel bursaries, Commonwealth grants or an OS-HELP loan.

## LEARN MORE

Curtin Study Abroad holds weekly information sessions to help you plan and prepare for your international experience.

You can learn more about our information sessions, programs, scholarship opportunities, eligibility guidelines and how to apply on our website.

[curtin.edu/studyabroad](http://curtin.edu/studyabroad)



*"My favourite experience was ice skating on Niagara Falls. It had frozen over for the first time in 60 years and the international student office took us out to skate. There were maybe 80 of us – exchange students and staff from the office – and we were all out on the ice at once. The river was wide though, and we were only a couple of kilometres upstream from the edge of the falls."*

*"I went up to the railing and looked out at the view. You could see out over the US border and it was full of lights."*

Kris, a surveying and commerce student who studied at Brock University in Ontario, Canada.





# SCHOLARSHIPS



[scholarships.curtin.edu.au](https://scholarships.curtin.edu.au)

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, which is awarded to students with an ATAR from 96 who meet the eligibility criteria.

Other scholarships 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 backgrounds
- high-achievers
- from regional areas
- studying specific courses.

Each scholarship has different eligibility criteria, application procedures and closing dates, so check these early in the process.

## 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 one week before applications close.

[scholarships.curtin.edu.au](https://scholarships.curtin.edu.au)



*"I am a recipient of the Curtin Excellence Scholarship and the BHP Women in Engineering Scholarship. Receiving a scholarship has been an amazing opportunity and has taken so much pressure off. I can enjoy my course and my career, without having a huge HECS debt."*

**Natasha Murphy,**  
Bachelor of Engineering (Honours)





## MANAGE YOUR TIME

At Curtin you're in control of your education and your life at uni. We encourage you to make the most of it: study subjects you're passionate about and take advantage of our flexible study options.

At uni you're responsible for completing your own paperwork, planning your timetable, attending your set classes and handing in your assignments.

You will enjoy the freedom it brings, and it will help you develop skills that all employers look for: time management, organisation, teamwork, multi-tasking, goal setting, negotiation and networking.

### FULL-TIME AND PART-TIME STUDY

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 the course.

Your workload is normally divided between lectures, tutorials, workshops, laboratories, fieldwork, work placements and individual study, depending on your course. Your timetable and the required study hours may vary from day-to-day.

### ONLINE COURSES

Our online courses offer an interactive and collaborative learning experience that gets you the same degree you would get if you studied on campus, and you can still learn and socialise with other students.

[curtin.edu.au/online](http://curtin.edu.au/online)

### PLANNING YOUR TIMETABLE

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

[timetable.student.curtin.edu.au](http://timetable.student.curtin.edu.au)

### BLACKBOARD: GETTING YOUR LEARNING MATERIALS ONLINE

Blackboard is Curtin's learning management system. For each unit you're enrolled in, you'll be able to access your unit outline, staff contact information, learning materials and interactive tools, as well as your assessment details, submissions and grades. With Mobile Learn, you can log into Blackboard with your smart phone or tablet.

[elearn.curtin.edu.au/blackboard/mobilelearn.cfm](http://elearn.curtin.edu.au/blackboard/mobilelearn.cfm)

### iLECTURE: REVIEWING YOUR LECTURES ONLINE

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. iLecture recordings will be made available shortly after the lecture and you can access them through Blackboard.

### OASIS

OASIS is your online student portal and provides access to enrolment details, your timetable, student email, Blackboard, exam results, links to all Curtin's facilities, library catalogues and databases and links to all Curtin's facilities.

### iPORTFOLIO

As a Curtin student, you will have access to iPortfolio. It's an online space where you collect and display evidence of your skills and achievements.

It's a great way to connect with prospective employers, and you can also upload your portfolio to iTunesU and share your talent with other people from around the world.

[iportfolio.curtin.edu.au](http://iportfolio.curtin.edu.au)

### ELITE ATHLETE PROGRAM

Training for elite sport while studying for a degree is the ultimate challenge. Curtin's Elite Athlete program provides assistance and support for students who are currently in a state or national representative squad, team or individual sport. Through the program, you will receive assistance with:

- Flexible study options and attendance so you can adjust your study load when you have sporting commitments
- Deferred assessments and assignment extensions if you have sporting commitments or are competing interstate or overseas.

[life.curtin.edu.au/curtin-stadium/elite-athletes.htm](http://life.curtin.edu.au/curtin-stadium/elite-athletes.htm)

### ASK FOR HELP

We want you to succeed academically, socially, physically and mentally, so if you need help, just ask. If you are not sure where to start, a student advisor will direct you to the appropriate resource.

We can help you with study skills, careers, finding a mentor, managing class assignments, research skills, managing stress, writing and presenting, housing, health, scholarships, navigating the campus with a disability, diversity concerns, safety and personal issues.



[futurestudents.curtin.edu.au](http://futurestudents.curtin.edu.au)







## COMMON UNI WORDS

 [curtin.edu/uni-terms](https://curtin.edu/uni-terms)

### COURSE TYPES

#### BACHELOR DEGREE

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

For example, Bachelor of Laws.

#### DOUBLE DEGREE

Studying two complementary bachelor degrees concurrently. A double degree has a shorter timeframe than taking two degrees separately.

For example: Bachelor of Commerce (Marketing) and Bachelor of Arts (Creative Writing).

#### HONOURS

Additional research and coursework at an advanced level.

#### POSTGRADUATE STUDY

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

#### UNDERGRADUATE STUDY

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

### COURSE STRUCTURE

#### MAJOR

A series of more than eight units combined to satisfy Curtin's requirements in an area of specialisation within a bachelor degree. A major includes at least two units at final-year level.

#### DOUBLE MAJOR

Two full majors within a degree course, giving you an in-depth perspective of two areas.

#### MINOR

A series of four units in the same subject, including at least two units at second-year level or higher.

#### PROFESSIONAL PLACEMENT/INTERNSHIP

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

#### STREAM

A specialised structure of units within a course.

### UNIT

A distinct area of study that is a component of a course. Units cover one subject area in detail and 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 school or 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.

#### CRICOS CODE

Courses registered with a CRICOS code are available to international students studying in Australia on a student visa.

#### DESIRABLE

A recommended but not essential subject that is completed before starting a course.

### PREREQUISITE

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

#### STAT

The Special Tertiary Admissions Test is a pathway to university for mature-age students who don't meet the entry requirements.

#### STUDY MODE

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 the course.

### OTHER TERMS

#### CREDIT FOR RECOGNISED LEARNING

Credit granted for units within your course based on your previous study or work experience.

#### FACULTY

A teaching area comprising university schools and disciplines.

#### MATURE AGE

University applicants who are 20 years of age or over by 1 March.

#### TISC

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





*“I knew I would receive a globally recognised degree which would give me many opportunities to work anywhere in the world. Doing a double degree has also opened up many potential career pathways for me.”*

Emma De Giorgio

Bachelor of Laws and Bachelor of Commerce  
(Human Resource Management).

# OUR COURSES

Business, management and law .....	22
Agriculture, environment and sustainability .....	36
Engineering and mining .....	40
IT and computing .....	48
Physical sciences and mathematics .....	52
Health.....	62
Arts and creative industries.....	78
Culture, language and indigenous .....	86
Architecture and construction.....	94
Education.....	98
Double degrees .....	102





# BUSINESS, MANAGEMENT AND LAW

STAT key: V = Verbal; Q = Quantitative; WE = Written English

## COURSES

- Business Administration
- Commerce:
  - Accounting
  - Accounting Technologies
  - Advertising
  - Banking
  - Business Information Systems (Professional)
  - Business Information Technology (Professional)
  - Business Law
  - Economics
  - Entrepreneurship
  - Event Management
  - Finance
  - Human Resource Management
  - Industrial Relations
  - International Business
  - Logistics and Supply Chain Management
  - Management
  - Marketing
  - Property
  - Property Development and Valuation
  - Public Relations
  - Taxation
  - Tourism and Hospitality

- Law

### See also:

- Agribusiness (page 37)
- Law and Psychology (page 76)
- International Relations (page 89)
- Mass Communication (page 84)

## MINORS

Some courses allow you to explore a secondary field of study, called a minor. A minor is a series of four units in the same subject, including at least two units at second-year level or higher. Taking a minor gives you the freedom to study for your intended career and pursue personal study interests at the same time.

Apply classroom learning to real situations when you study a business or law course at Curtin. Through our extensive industry networks you'll get exposure to business professionals and projects that prepare you for future employment.

Within the Faculty of Business and Law, Curtin Business School is recognised as an elite business school through its accreditation by AACSB ensuring your business degree will be recognised around the globe.



## BUSINESS ADMINISTRATION

**Degree:** Bachelor of Business Administration

**Faculty:** Business and Law

**Guaranteed ATAR:** 70

**Prerequisites:** None

**Desirable:** At least Mathematics: Applications ATAR or equivalent

**STAT:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth, Malaysia

### COURSE DESCRIPTION:

This wide-ranging degree can offer you a variety of opportunities for a career in business and management. It is designed for school leavers seeking a degree that will provide expertise in general management, and mature-age students with business experience.

There is a range of introductory topics, and you will undertake specialist units emphasising decision making, human resource issues, international issues and work-related projects.

The course positions you well to interact in a global business environment and you may have the opportunity to study overseas.

Additional skills can be gained by taking elective units from outside your main field of specialisation. For example, language units.

You will graduate with expertise in general management and the ability to specialise in areas such as small business and entrepreneurship, human resources and international management.

### WORK-INTEGRATED LEARNING:

As part of the Business Capstone common core unit, you'll take part in a competition to run the most successful virtual company. You may also participate in industry-based projects and international study tours.

You can also apply for an internship through the Business Internship unit to gain professional work experience while you study.

Through our partnership with the Chamber of Commerce and Industry of Western Australia, you could intern at a relevant business and work on a real-world project related to your area of study. Internships are selected through a competitive process.

[business.curtin.edu.au/internship](http://business.curtin.edu.au/internship)

### CAREER OPPORTUNITIES:

Branch manager, business administrator, operations manager, senior manager.

### EMPLOYMENT INDUSTRIES:

Corporations, government agencies, not-for-profit organisations, resources sector.



## Did you know?

Social media advertising is the fastest-growing component of internet advertising – it grew 51 per cent in 2016, and is predicted to grow at an average rate of 20 per cent per year to 2019.

Source: Zenith Advertising and Spending Forecast, 2017.





BUSINESS, MANAGEMENT AND LAW



STAT key: V = Verbal; Q = Quantitative; WE = Written English

COMMERCE

**Degree:** Bachelor of Commerce  
**Faculty:** Business and Law  
**guaranteed ATAR:** 70  
**Prerequisites:** None  
**Desirable:** At least Mathematics: Applications ATAR or equivalent  
**STAT:** WE and either V or Q  
**Study mode:** Full-time, part-time  
**Duration:** 3 years full-time  
**Location\*:** Perth, Dubai, Malaysia, Mauritius, Singapore  
**Majors available:** Accounting; Accounting Technologies; Advertising; Banking; Business Information Systems (Professional); Business Information Technology (Professional); Business Law; Economics; Entrepreneurship; Event Management; Finance; Human Resource Management; Industrial Relations; International Business; Logistics and Supply Chain Management; Management; Marketing; Property; Property Development and Valuation; Public Relations; Taxation; Tourism and Hospitality.

*Note: Portfolio entry is available for this course. See page 104.*

\*This course may not be offered at all locations every year, and streams and majors may vary across campuses.

COURSE DESCRIPTION:

The Bachelor of Commerce is Curtin Business School’s principal course and an internationally recognised business qualification. You can choose from a variety of business specialisations to suit your individual passions and career goals.

One of the Bachelor of Commerce’s outstanding strengths is its diversity. The common core units taken in your first year allow you to explore all areas of business before finally selecting your chosen major in your second semester.

Depending on which business area you choose, you can select a single major or a double major, or take the Bachelor of Commerce as part of a double degree. You will graduate with a Bachelor of Commerce degree regardless of which major you choose.

► ACCOUNTING MAJOR

**Degree:** Bachelor of Commerce (Accounting)  
**COURSE DESCRIPTION:** Qualified accountants are in demand around the world, meeting financial needs in dynamic business environments. At Curtin, you can develop expertise in areas such as auditing, taxation, insolvency, compliance or accounting systems and technology, and obtain a qualification that is recognised internationally.

This major introduces you to accounting principles, auditing, taxation, relevant areas of business law and financial management.

You can examine the development and communication of information relating to the financial performance of organisations, learn to prepare reports and give advice on an organisation’s record-keeping and compliance requirements.

WORK-INTEGRATED LEARNING:

Through the Business Internship unit, you may have an opportunity to take up a work experience role in association with an accounting firm.

CAREER OPPORTUNITIES:

Accountant, auditor, business analyst, tax agent/consultant, treasurer.

EMPLOYMENT INDUSTRIES:

Accounting firms, finance and investment firms, government departments, law firms, resources and renewables sectors.

**PROFESSIONAL ACCREDITATION AND MEMBERSHIPS:** Graduates are accredited by, and are eligible for membership to, the following professional bodies: Association of Chartered Certified Accountants, Chartered Accountants Australia and New Zealand, Chartered Institute of Management Accountants, CPA Australia, Institute of Public Accountants.

**AVAILABLE AS A DOUBLE MAJOR WITH:** Accounting Technologies; Banking; Business Information Systems; Business Law; Entrepreneurship; Finance; Taxation.

**DOUBLE DEGREES AVAILABLE:** See page 102.

► ACCOUNTING TECHNOLOGIES MAJOR

**Degree:** Bachelor of Commerce (Accounting Technologies)  
*Note: This major can only be taken as a double major with Accounting.*

**COURSE DESCRIPTION:** The Accounting Technologies major provides a comprehensive understanding of the use of technology in accounting and related areas.

You will study issues in managerial accounting, computer accounting packages, accounting modelling and accounting statement analysis, and explore the challenges for workplaces relying on e-commerce.

WORK-INTEGRATED LEARNING:

Through the Business Internship unit, you may have an opportunity to take up a work experience role in association with an accounting firm.

CAREER OPPORTUNITIES:

Accountant, auditor, business analyst, tax agent/consultant, treasurer.

**EMPLOYMENT INDUSTRIES:** Accounting firms, finance and investment firms, government departments, law firms, resources and renewables sectors.

**PROFESSIONAL ACCREDITATION AND MEMBERSHIPS:** Graduates are accredited by, and are eligible for membership to the following professional bodies: Association of Chartered Certified Accountants, Chartered Accountants Australia and New Zealand, Chartered Institute of Management Accountants, CPA Australia, Institute of Public Accountants.

**AVAILABLE AS A DOUBLE MAJOR WITH:** Accounting.

► ADVERTISING MAJOR

**Degree:** Bachelor of Commerce (Advertising)  
**COURSE DESCRIPTION:** Advertising is where art, science and technology collide. A typical advertising agency is made up of five primary disciplines: account management, planning, media, production and creative.

The disciplines work together to deliver effective advertising communications across both traditional and digital media, including television, radio, magazines, newspapers, outdoor media and online platforms, promoting brands, causes, events and products.

In this major you will gain an understanding of advertising business principles and processes, including communication theory, brand management, advertising research, account planning and media planning, and gain an appreciation for the creative elements of advertising.

With this knowledge, you will be able to engage in creative recommendations and judgement in the workplace.

**WORK-INTEGRATED LEARNING:** Throughout the major, you will have the opportunity to work with real brands and clients and attend free on-campus workshops with The Communications Council, a national organisation that aims to close the gap between study and careers in marketing. You may have direct industry interaction with Marketforce, a leading marketing communications company based in Perth.

You could also apply for an internship through the Business Internship unit.

**CAREER OPPORTUNITIES:** Account executive, account manager, advertising manager, media planner, strategic planner.

**EMPLOYMENT INDUSTRIES:** Advertising agencies, digital agencies, government departments, manufacturing companies, media agencies, publishers.

**PROFESSIONAL ACCREDITATION:** International Advertising Association.

**AVAILABLE AS A DOUBLE MAJOR WITH:** Marketing, Public Relations.

► BANKING MAJOR

**Degree:** Bachelor of Commerce (Banking)  
*Note: This major can only be taken as part of a double major with Accounting or Finance.*

**COURSE DESCRIPTION:** The global nature of financial services means there is significant potential for overseas work or secondment offshore. You could work in corporate finance, financial markets, managed funds and superannuation or in retail banking and private wealth management, both in Australia and overseas.

Professionals in banking and finance use analytical knowledge and skills to help clients find financial solutions, start new businesses or expand existing ones.

In this major, you’ll develop a working knowledge of the Australian banking and financial system. The major focuses on financial markets and institutions, covering developments in the financial sector and management of financial institutions.

You’ll learn about bank lending, international trade, and banking practice and management.

**WORK-INTEGRATED LEARNING:** You will be taught by staff who undertake practical research in areas such as investments, trading strategies, asset pricings, corporate finance, and corporate governance, and help you to apply theory to real situations.

You could also apply for an internship through the Business Internship unit.

**CAREER OPPORTUNITIES:** Bank manager, credit analyst, corporate finance analyst, finance manager, investment banker.

**EMPLOYMENT INDUSTRIES:** Banks, brokerage firms, government departments, private businesses.

**AVAILABLE AS A DOUBLE MAJOR WITH:** Accounting, Finance.

**A ONCE-IN-A-LIFETIME OPPORTUNITY**

Curtin Business School is one of just 22 institutions worldwide to have an agreement with Stanford University to allow nominated students to enrol in the prestigious Stanford International Honors Program (IHP).





## BUSINESS, MANAGEMENT AND LAW

STAT key: V = Verbal; Q = Quantitative; WE = Written English



### ► BUSINESS INFORMATION SYSTEMS (PROFESSIONAL) MAJOR

**Degree:** Bachelor of Commerce (Business Information Systems (Professional))

**COURSE DESCRIPTION:**

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

An information systems specialist analyses and maps out an organisation's business processes and comes up with ideas for optimising its operations.

This major caters for those who want to work on the business side of IT. You'll learn how business information systems are selected, managed and applied to business problems, and gain an understanding of systems analysis and project management.

**WORK-INTEGRATED LEARNING:**

You can get involved in the Information Systems Professional Practice program supported by the Australian Computer Society.

You could also apply for an internship through the Business Internship unit.

**CAREER OPPORTUNITIES:**

Business analyst, IT auditor, IT manager, project manager, systems analyst.

**EMPLOYMENT INDUSTRIES:**

Banking sector, business and management consultancies, government agencies, resources sector, technology companies.

**PROFESSIONAL ACCREDITATION:**

Australian Computer Society.

**AVAILABLE AS A DOUBLE MAJOR WITH:**

Accounting, Business Information Technology (Professional), Logistics and Supply Chain Management.

### ► BUSINESS INFORMATION TECHNOLOGY (PROFESSIONAL) MAJOR

**Degree:** Bachelor of Commerce (Business Information Technology (Professional))

**COURSE DESCRIPTION:**

An IT specialist develops, tests, implements and supports business IT systems and provides desktop or network support to staff.

This major focuses on how information technology is used to collect, process and output information in organisations, and provides in-depth knowledge of application design, systems implementation and management.

**WORK-INTEGRATED LEARNING:**

You can get involved in the Information Systems Professional Practice program supported by the Australian Computer Society.

You could also apply for an internship through the Business Internship unit.

**CAREER OPPORTUNITIES:**

Business analyst, IT auditor, IT manager, project manager, systems analyst.

**EMPLOYMENT INDUSTRIES:**

Banking sector, business and management consultancies, government agencies, resources sector, technology companies.

**PROFESSIONAL ACCREDITATION:**

Australian Computer Society.

**AVAILABLE AS A DOUBLE MAJOR WITH:**

Business Information Systems (Professional).

### ► BUSINESS LAW MAJOR

**Degree:** Bachelor of Commerce (Business Law)

**COURSE DESCRIPTION:**

Businesses work with laws every day, for example in entering contracts, acquiring business assets, leasing premises and hiring staff. Knowledge of legal implications in corporate governance, and the wider aspects of business law and ethical practices, will give you relevant knowledge when entering the workforce or working in your own business.

Whether you're working as a small business operator, for a not-for-profit organisation, or in a multinational corporation, you need to understand which areas of law impact upon the business, how to comply with all legal requirements and how to proactively identify and manage legal risk.

This major gives you a sound knowledge of the laws that govern and apply to businesses and commercial transactions. You'll understand how the law impacts on all areas of business in a practical context, identify and manage appropriate legal risks that arise in businesses and learn how to meet relevant legal requirements.

You'll discover how the law is created, changed and applied to business and government, and appreciate ethical issues in business situations.

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

You may also study units in public relations law, international business law, safety and environmental health law and practical employment law.

**WORK-INTEGRATED LEARNING:**

The course content is useful and industry-focused, and staff are actively involved in helping to apply your knowledge to case studies and practical scenarios.

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.

You can apply for an internship through the Business Internship unit.

**CAREER OPPORTUNITIES:**

Administrator, compliance officer, contract manager, law clerk, legal administrator, settlement agent.

**EMPLOYMENT INDUSTRIES:**

Accounting firms, government departments, human resource areas, law firms, media and marketing firms, property firms, resources sector, the banking and finance sector, the corporate sector.

**AVAILABLE AS A DOUBLE MAJOR WITH:**

Accounting, International Relations, Marketing.



Hear from young gun economist and Curtin alumnus Paul Bloxham.

[curtin.edu/cbs/bloxham](http://curtin.edu/cbs/bloxham)

### ► ECONOMICS MAJOR

**Degree:** Bachelor of Commerce (Economics)

**COURSE DESCRIPTION:**

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

With a focus on applied economics, this course 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.

The course provides a solid foundation in both microeconomics and macroeconomics, as well as giving you the quantitative and qualitative skills you need to apply theory to practice.

As well as jobs in industry, this course can also prepare you for research-focused study.

There is an opportunity to undertake an honours program in economics, which will further develop your economic skills.

**WORK-INTEGRATED LEARNING:**

Throughout the course you will develop a range of analytical skills and learn to apply them to key local and international issues.

You'll use real-world case studies and data, and learn from industry practitioners to help you build and practise your problem solving skills.

The course also provides opportunities to engage with industry experts who will demonstrate how to apply economics in real life industry issues such as housing affordability, taxation and inter-governmental relationships, the environment and inequality in the labour market.

You can apply for an internship through the Business Internship unit.

**CAREER OPPORTUNITIES:**

Business analyst, domestic/foreign policy advisor, econometrician, economic consultant, economist.

**EMPLOYMENT INDUSTRIES:**

Commercial and investment banks, consultancy firms, international agencies and government departments, major corporations in the resources sector.

**PROFESSIONAL MEMBERSHIPS:**

Economic Society of Australia (WA branch).

**AVAILABLE AS A DOUBLE MAJOR WITH:**

Finance, International Relations, Management, Marketing.

**DOUBLE DEGREES AVAILABLE:**

See page 102.



### ► ENTREPRENEURSHIP MAJOR

**Degree:** Bachelor of Commerce (Entrepreneurship)

#### COURSE DESCRIPTION:

Entrepreneurs can be found in all types of industries. What they have in common is ambition, an ability to think outside the box and the love of a personal challenge. Does this sound like you?

If you want to pave your own way and bring ideas to life rather than work for someone, you could be an entrepreneur in the making.

This major is designed for enterprising people who want to start their own business, or work as internal corporate entrepreneurs. You'll gain skills in problem solving, planning, organising and managing innovation.

You'll study the foundations of business and take a number of units that develop your skills, knowledge and expertise in developing, running and growing an entrepreneurial venture.

You will also gain skills in management, problem solving, planning, organisation and managing change. The practical approach of this major gives you the chance to interact with real entrepreneurs and receive industry experience.

Entrepreneurship graduates find employment in a diverse range of industries.

#### WORK-INTEGRATED LEARNING:

Our staff have strong industry links, have experience sitting on boards of successful small business advisory organisations, and are active researchers in the entrepreneurship and small business fields.

You'll also have opportunities to interact with real entrepreneurs and their businesses. In your final semester, you'll work on a simulated consultancy project to road-test your skills.

You can apply for an internship through the Business Internship unit.

#### CAREER OPPORTUNITIES:

Business manager, business owner or partner, entrepreneur, intrapreneur.

#### EMPLOYMENT INDUSTRIES:

Family businesses, public sector organisations, start-ups.

#### PROFESSIONAL MEMBERSHIPS:

Australian Institute of Management.

#### AVAILABLE AS A DOUBLE MAJOR WITH:

Accounting, Marketing.

#### DOUBLE DEGREES AVAILABLE:

See page 102.

### ► EVENT MANAGEMENT MAJOR

**Degree:** Bachelor of Commerce (Event Management)

#### COURSE DESCRIPTION:

An event management qualification can create opportunities for you to work at the core of business, leisure, sporting and cultural activities, in many countries.

Event managers are in charge of developing, organising and promoting events such as exhibitions, festivals, conferences, product launches and fundraisers.

This major provides you with the knowledge and skills needed to succeed when managing events in Australia and overseas.

You will study the sustainable development of events, the impact of events on the local and global economy, critical aspects of event planning and management and the role of risk in event management.

You'll gain transferable skills in critical thinking, research, academic writing, communication, teamwork and ethical reasoning.

You can enhance your studies with a secondary major in public relations or choose from a range of elective units to support your career goals.

#### WORK-INTEGRATED LEARNING:

You can undertake an internship to help organise a real event, such as the Chevron City to Surf marathon, the Cancer Council Relay for Life or the Perth Royal Show.

You can also apply for an internship through the Business Internship unit.

#### CAREER OPPORTUNITIES:

Event coordinator, event executive, event director, event manager, marketing officer, public relations officer.

#### EMPLOYMENT INDUSTRIES:

Conference, exhibition, sporting events and arts venues, government departments, hotels and resorts, private and public companies, public relations consultancies.

#### AVAILABLE AS A DOUBLE MAJOR WITH:

Public Relations.

### ► FINANCE MAJOR

**Degree:** Bachelor of Commerce (Finance)

#### COURSE DESCRIPTION:

This 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 will also examine the role of financial markets.

#### WORK-INTEGRATED LEARNING:

The Finance major has been accepted into the CFA Institute University Recognition Program. The Chartered Financial Analyst (CFA) credential is one of the most respected and recognised investment designation in the world and the CFA program is the first step towards earning this qualification.

The degree incorporates at least 70 per cent of the CFA Program Candidate Body of Knowledge (CBOK), which provides you with a solid grounding and positions you well to sit for CFA exams.

You will be taught by staff who undertake practical research in areas such as investments, trading strategies, asset pricings, corporate finance, and corporate governance, and help you to apply theory to real situations.

You could also apply for an internship through the Business Internship unit.

#### CAREER OPPORTUNITIES:

Bank manager, credit analyst, corporate finance analyst, finance manager, investment banker.

#### EMPLOYMENT INDUSTRIES:

Banks, brokerage firms, government departments, private businesses.

#### PROFESSIONAL MEMBERSHIPS:

Australasian Institute of Banking and Finance, Economic Society of Australia.

#### PROFESSIONAL RECOGNITION:

CFA Institute.

#### AVAILABLE AS A DOUBLE MAJOR WITH:

Accounting, Banking, Economics, Management, Marketing, Property.

#### DOUBLE DEGREES AVAILABLE:

See page 102.

### ► HUMAN RESOURCE MANAGEMENT MAJOR

**Degree:** Bachelor of Commerce (Human Resource Management)

#### COURSE DESCRIPTION:

Human Resource Management (HRM) is the process of managing people in order to maximise employee and organisational performance and wellbeing.

An organisation's HRM strategy develops and maintains its human resources to fulfill its strategic goals. It includes effectively managing recruitment and selection, training and development, workforce planning, remuneration, employee performance and wellbeing, retention and risk management.

In this major you will develop the essential knowledge, skills and competencies to pursue a career in HRM and related professions. Topics of study include performance management, recruitment and selection, training and development, strategic human resource management, human resources metrics and analytics, project management in HRM, international HRM, human resources development, industrial relations and career management.

Working with our expert instructors, you will draw on the latest theory and practice to understand the role of HRM in the 21st Century business marketplace.

#### WORK-INTEGRATED LEARNING:

You have the option of taking an internship in organisations such as Bankwest, Main Roads Western Australia and Qantas, amongst others.

These internships allow you to understand the complex and challenging dynamics of contemporary business organisations. You can also apply for an internship through the Business Internship unit.

#### CAREER OPPORTUNITIES:

Change manager, diversity and inclusion officer, employee relations specialist, human resources consultant, people and culture specialist, people manager, recruitment consultant, trade union official.

#### EMPLOYMENT INDUSTRIES:

Banking and finance, education, health care, public relations, resources sector, retail, services.

#### PROFESSIONAL ACCREDITATION:

Australian Human Resources Institute.

#### AVAILABLE AS A DOUBLE MAJOR WITH:

Industrial Relations, Management, Psychology.

#### DOUBLE DEGREES AVAILABLE:

See page 102.







## BUSINESS, MANAGEMENT AND LAW

STAT key: V = Verbal; Q = Quantitative; WE = Written English

### ► INDUSTRIAL RELATIONS MAJOR

**Degree:** Bachelor of Commerce (Industrial Relations)

*Note: This major must be taken as a double major with Human Resource Management.*

#### COURSE DESCRIPTION:

Industrial relations focuses on ensuring that businesses understand and comply with current industrial relations laws.

This major covers the relationship between management and the workforce, and the influence of unions, employers, employees and the government.

You will study the formal framework of industrial relations, forms of bargaining, negotiation processes, grievance processes, industrial action and dispute resolution.

#### WORK-INTEGRATED LEARNING:

You have the option of taking an internship in organisations such as Bankwest, Main Roads Western Australia and Qantas, amongst others.

These internships allow you to understand the complex and challenging dynamics of contemporary business organisations. You can also apply for an internship through the Business Internship unit.

#### CAREER OPPORTUNITIES:

Change manager, diversity and inclusion officer, employee relations specialist, human resources consultant, people and culture specialist, people manager, recruitment consultant, trade union official.

#### EMPLOYMENT INDUSTRIES:

Banking and finance, education, health care, public relations, resources sector, retail, services.

#### PROFESSIONAL MEMBERSHIPS:

Australian Human Resources Institute and Industrial Relations Society of Western Australia.

AVAILABLE AS A DOUBLE MAJOR WITH:  
Human Resource Management.

**DOUBLE DEGREES AVAILABLE:**  
See page 102.

### ► INTERNATIONAL BUSINESS MAJOR

**Degree:** Bachelor of Commerce (International Business)

#### COURSE DESCRIPTION:

Multinational businesses with production or operations in more than one country 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 can learn to analyse business systems in different countries and international markets, navigate your way around international business environments and may gain the personal attributes and competencies you need to be successful in international business, including working in cross-cultural teams.

Learning is practical and focuses on current issues and cases. You can develop high-level skills in management, problem solving, planning, organising and managing change, which can help prepare you for a career in global business.

#### WORK-INTEGRATED LEARNING:

You can apply for an internship through the Business Internship unit. Past students have helped solve existing problems within real global organisations such as Renault, Celebrity Fashions and Ashok Leyland, which is based in India.

#### CAREER OPPORTUNITIES:

Corporate affairs manager, customs broker, foreign affairs and trade officer, import/export manager, international business development manager, international trade specialist, procurement services officer.

#### EMPLOYMENT INDUSTRIES:

Consulting firms, government departments, import and export companies, international banking firms, international consultancy, international organisations.

**DOUBLE DEGREES AVAILABLE:**  
See page 102.

### ► LOGISTICS AND SUPPLY CHAIN MANAGEMENT MAJOR

**Degree:** Bachelor of Commerce (Logistics and Supply Chain Management)

#### COURSE DESCRIPTION:

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.

Throughout the major you'll cover the foundations and techniques of management, law, supply chain management, purchasing and procurement. A range of issues applicable to strategic procurement, such as competitive conduct, strategy, logistics and management will be examined.

You'll also study topics in operations management and project management. Studying this major prepares you for employment in transport, purchasing, distribution, manufacturing and retail.

Curtin is the only university in Western Australia to offer an undergraduate qualification in logistics and supply chain management.

#### WORK-INTEGRATED LEARNING:

You can get involved in the Information Systems Professional Practice program supported by the Australian Computer Society Foundation, and Fresh Connection student competition.

You can also apply for an internship through the Business Internship unit.

#### CAREER OPPORTUNITIES:

Inventory and supply officer, logistics coordinator, operations manager, procurement officer, supply chain analyst, transport administrator.

#### EMPLOYMENT INDUSTRIES:

Manufacturing companies, mining companies, oil and gas exploration, planning and operations departments, third-party logistics providers.

AVAILABLE AS A DOUBLE MAJOR WITH:  
Business Information Systems (Professional), Marketing.

### ► MANAGEMENT MAJOR

**Degree:** Bachelor of Commerce (Management)

#### COURSE DESCRIPTION:

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 resources.

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

You'll also learn how organisations work, how to make plans, how to manage change, how to consider ethics and sustainability and how to be an innovative leader.

#### WORK-INTEGRATED LEARNING:

You can apply for an internship through the Business Internship unit and help solve an existing problem within a real organisation such as Bankwest or Main Roads Western Australia.

#### CAREER OPPORTUNITIES:

Business or retail manager, management consultant, service delivery manager, team leader.

#### EMPLOYMENT INDUSTRIES:

Consulting firms, finance sector, government departments, industrial and commercial organisations, training and development companies.

**PROFESSIONAL MEMBERSHIPS**  
Australian Institute of Management

AVAILABLE AS A DOUBLE MAJOR WITH:  
Economics, Finance, Human Resource Management, Marketing, Public Relations.

**DOUBLE DEGREES AVAILABLE:**  
See page 102.

### ► MARKETING MAJOR

**Degree:** Bachelor of Commerce (Marketing)

#### COURSE DESCRIPTION:

Marketing is one of the most important functions in a successful business. It is used to differentiate products and services in the marketplace, effectively communicate with an intended audience, and develop strategies to 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 gives you the chance to explore a wide area 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.

#### WORK-INTEGRATED LEARNING:

You'll have opportunities to attend free on-campus workshops, interact with industry professionals, solve real business problems and present your ideas directly to management representatives.

Our partnerships with key industry bodies ensure our curriculum is up-to-date and meeting the needs of industry.

You can apply for an internship through the Business Internship unit.

#### CAREER OPPORTUNITIES:

Digital marketing specialist, fundraising coordinator, marketing assistant, marketing communications manager, market research analyst, product manager.

#### EMPLOYMENT INDUSTRIES:

Advertising agencies, government departments, leisure and tourism industry, manufacturing companies, retailers and wholesalers, service industries.

#### PROFESSIONAL MEMBERSHIPS:

Australian Marketing Institute, The Communications Council Education Network.

Available as a double major with: Advertising, Business Law, Economics, Entrepreneurship, Finance, Logistics and Supply Chain Management, Public Relations, Tourism and Hospitality.

**DOUBLE DEGREES AVAILABLE:**  
See page 102.





**BUSINESS, MANAGEMENT AND LAW**

STAT key: V = Verbal; Q = Quantitative; WE = Written English

**► PROPERTY MAJOR**

**Degree:** Bachelor of Commerce (Property)  
*Note: This major can only be taken as a double major with Finance or Marketing.*

**COURSE DESCRIPTION:**

Combined with a major in finance or marketing, this 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 an 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.

**WORK-INTEGRATED LEARNING:**

You can apply for an internship through the Business Internship unit.

**CAREER OPPORTUNITIES:**

Commercial sales agent, investment analyst, property developer, property finance professional, property manager, valuer.

**EMPLOYMENT INDUSTRIES:**

Asset management companies, banks and investment institutions, international property companies, property developers, state and local government, valuation firms.

**PROFESSIONAL ACCREDITATION:**

When studied with the Finance major: Royal Institution of Chartered Surveyors.

**PROFESSIONAL MEMBERSHIPS:**

Australian Property Institute (but not at the Certified Practising Valuer level).

*Note: To qualify for Australian Property Institute membership at the Certified Practising Valuer level you must complete the Bachelor of Commerce (Property Development and Valuation).*

**AVAILABLE AS A DOUBLE MAJOR WITH:**  
Finance, Marketing.

**► PROPERTY DEVELOPMENT AND VALUATION MAJOR**

**Degree:** Bachelor of Commerce (Property Development and Valuation)

*Note: This major is not available to international students.*

**COURSE DESCRIPTION:**

Ever evolving, the property industry shapes cities and drives economies. Skilled property professionals are an essential part of the industry and are involved in property development, property valuation, property investment, property analysis, and residential and commercial real estate sales.

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.

**WORK-INTEGRATED LEARNING:**

In the final year of the Property Development and Valuation major you will undertake a three-week practical placement under the guidance of a fully qualified Australian Property Institute member. You can also apply for an internship through the Business Internship unit.

**CAREER OPPORTUNITIES:**

Commercial sales agent, investment analyst, property developer, property finance professional, property manager, valuer.

**EMPLOYMENT INDUSTRIES:**

Asset management companies, banks and investment institutions, international property companies, property developers, state and local government, valuation firms.

**PROFESSIONAL ACCREDITATION:**

Australian Property Institute, Department of Mines, Industry Regulation and Safety, WA Real Estate and Business Agents Licence, Royal Institution of Chartered Surveyors.

**PROFESSIONAL MEMBERSHIPS:**

Australian Property Institute (Certified Practising Valuer), Royal Institute of Chartered Surveyors.

**► PUBLIC RELATIONS MAJOR**

**Degree:** Bachelor of Commerce (Public Relations)

**COURSE DESCRIPTION:**

Public relations is about managing communications, reputation and relationships for organisations. It involves attracting and retaining the support of employees, investors, communities, customers and other stakeholders critical to an organisation's success.

Public relations professionals work in a wide variety of organisations and industries. They may provide advice to management and decision-makers at the highest level, and work closely with a range of stakeholders, including the media.

The Public Relations major will teach you how to plan and develop effective communication strategies, and how to put those plans into action and measure their effectiveness. It will also prepare you for managing relationships and engaging with stakeholders, as well as primary decision-makers.

You will learn how the digital environment has affected communication and discuss the practice of ethical communication issues and crisis management in a local, national and international context.

**WORK-INTEGRATED LEARNING:**

You will gain hands-on experience by developing strategies for real organisations. You'll participate in crisis simulations and gain practical experience in transmedia storytelling. Classes are typically delivered in an interactive, engaging format, including extensive use of The Agency, and on-campus social media command centre.

You will undertake a professional internship in your final year. The internship component of the Public Relations major requires you to complete a minimum of 20 working days with an employer in a public relations capacity.

You can also apply for an internship through the Business Internship unit.

**CAREER OPPORTUNITIES:**

Communications consultant, community engagement adviser, corporate affairs officer, digital communication executive, events coordinator, internal communications coordinator, public/government affairs advisor, public relations coordinator.

**EMPLOYMENT INDUSTRIES:**

Corporations, event management companies, full-service and digital communications consultancies, government departments, not-for-profit sector, public relations agencies.

**PROFESSIONAL ACCREDITATION:**

Public Relations Institute of Australia.

**AVAILABLE AS A DOUBLE MAJOR WITH:**

Advertising, Event Management, Journalism, Management, Marketing, Tourism and Hospitality.

**DOUBLE DEGREES AVAILABLE:**

See page 102.

**► TAXATION MAJOR**

**Degree:** Bachelor of Commerce (Taxation)

*Note: This major can only be taken as a double major with Accounting or as a double degree with the Bachelor of Laws.*

**COURSE DESCRIPTION:**

This major provides an in-depth understanding of taxation laws and practice in Australia and overseas.

You will gain skills and knowledge to help you specialise in income tax, goods and services tax, fringe benefits tax, international tax, tax administration, tax structures and state taxes.

**WORK-INTEGRATED LEARNING:**

Through the Business Internship unit, you may have an opportunity to take up a work experience role in association with an accounting firm.

**CAREER OPPORTUNITIES:**

Accountant, auditor, business analyst, tax agent/consultant, treasurer.

**EMPLOYMENT INDUSTRIES:**

Accounting firms, finance and investment firms, government departments, law firms, resources and renewables sectors.

**PROFESSIONAL ACCREDITATION AND MEMBERSHIPS:**

Association of Chartered Certified Accountants, Association of Taxation and Management Accountants, Chartered Accountants Australia and New Zealand, Chartered Institute of Management Accountants, CPA Australia, Institute of Public Accountants, Tax Practitioners Board, The Tax Institute.

**AVAILABLE AS A DOUBLE MAJOR WITH:**

Accounting.

**DOUBLE DEGREES AVAILABLE:**

See page 102.





BUSINESS, MANAGEMENT AND LAW



STAT key: V = Verbal; Q = Quantitative; WE = Written English

► TOURISM AND HOSPITALITY  
MAJOR

**Degree:** Bachelor of Commerce (Tourism and Hospitality)

**COURSE DESCRIPTION:**

Employers in this field need people who enjoy travel, meeting new people and sharing exceptional experiences with others.

This major provides you with the knowledge and skills to become an effective manager in the tourism and hospitality sectors in Australia and overseas.

Study includes examining contemporary issues in international tourism, sustainability of the tourism and hospitality sectors, the impacts of tourism and events on the local and global economy, destination management, critical aspects of hospitality management and the role of marketing in tourism and hospitality.

**WORK-INTEGRATED LEARNING:**

This major gives you the opportunity to gain hands-on experience at tourism hotspots through regular study tours and field trips. Past field trip destinations have included:

- AQWA
- Margaret River
- Monkey Mia
- Perth Zoo
- Swan Valley.

You can also apply for an internship through the Business Internship unit.

**CAREER OPPORTUNITIES:**

Corporate travel consultant, resort manager, restaurant and catering manager, tourism information officer, tourism manager.

**EMPLOYMENT INDUSTRIES:**

Convention centres, destination management organisations, event companies, government departments, hotels and restaurants.

**AVAILABLE AS A DOUBLE MAJOR WITH:**

Marketing, Public Relations.

**DOUBLE DEGREES AVAILABLE:**

See page 102.

**LAW**

**Degree:** Bachelor of Laws

**Faculty:** Business and Law

**Minimum ATAR:** 90

**Prerequisites:** None

**STAT:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth and Perth city

**COURSE DESCRIPTION:**

Curtin's Bachelor of Laws can lead to admission into the legal profession, enabling you to give legal advice, perform legal work and appear in court as a lawyer. It is the first qualification you need if you want to practise as a lawyer in Australia.

The course offers you a foundation in essential areas of legal knowledge and will help you to develop core skills, with a strong commercial awareness, that are essential to effective legal practice.

The course is equivalent in volume to a four-year, full-time undergraduate law degree, however, the second and third years of the course are taught in trimesters at our city campus rather than semesters.

This means you could study a full load in each trimester and graduate in only three calendar years. If you wish to take a longer time to complete the course, you may choose to enrol in fewer than four units each trimester.

Further practical legal training must be undertaken after completing the Bachelor of Laws to be eligible for admission as a barrister and solicitor in Western Australia.

**WORK-INTEGRATED LEARNING:**

You will benefit enormously from the relationships you form with members of the profession and the proximity of the Supreme Court, the District Court and the Federal Court, which are located close to the Curtin Law School.

You can get involved in the Law School's legal clinic, which specialises in small business matters, and get further practical work experience through the Legal Internship unit.

You can also elect to undertake a legal internship in which you will spend one day per week working under the supervision of an employer in a professional legal environment.

The internship puts your law studies into context and provides opportunities to develop and apply your legal practice skills, critically analyse and reflect on the law in practice, and gain an appreciation of legal ethics. This unit can run either one day per week or intensively.

**CAREER OPPORTUNITIES:**

Barrister, criminal lawyer, employment lawyer, family lawyer, human rights lawyer, in-house counsel, mining lawyer, solicitor.

**EMPLOYMENT INDUSTRIES:**

Banks and financial institutions, corporate sector including resource companies, courts and tribunals, government, legal firms, private legal practice.

**PROFESSIONAL ACCREDITATION:**

The Bachelor of Laws degree is an approved qualification by the Legal Practice Board of Western Australia.

**DOUBLE DEGREES AVAILABLE:**

See page 102.



# AGRICULTURE, ENVIRONMENT AND SUSTAINABILITY

STAT key: V = Verbal; Q = Quantitative; WE = Written English

## COURSES

- Agribusiness
- Coastal and Marine Science
- Environmental Science
- Geography

Become familiar with the relationships between people, places and environments, and how we interact with the world around us. Curtin's agriculture, environment and sustainability courses allow you to study ways to manage the risks associated with seasons, climate change and global warming, or prepare for a career in agribusiness and learn how to farm and produce food and wine. With our geography course, you'll examine the threats and opportunities posed by urbanisation and global issues and learn how to secure essential supplies for those in need.



## AGRIBUSINESS

**Degree:** Bachelor of Agribusiness

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** Mathematics: Applications ATAR

**Desirable:** One of the following ATAR science subjects: 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, or Applied Information Technology

**STAT:** WE, V and Q

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

*Note: Portfolio entry is available for this course. See page 104.*

### COURSE DESCRIPTION:

Agribusiness combines agricultural, scientific and business principles, linking food and fibre production systems with consumers and producers. Australia is a global leader in developing innovative value chain solutions for economical, ethical and sustainable production using new technologies, including biotechnology, and marketing that can help address food security challenges.

Curtin offers Western Australia's only Bachelor of Agribusiness, providing a unique opportunity to understand both science and business as applied to agriculture.

To satisfy the growing demand for food worldwide, we need smarter ways of producing food and fibre using sustainable production methods, innovation and responsible entrepreneurship – exactly what this applied course is about.

In this course you will engage in research-led activities, problem-solving and self-directed experiments using our field trial site and glasshouse facilities.

You will gain the scientific knowledge to develop an understanding of production systems and to apply problem-solving techniques to management strategies.

You will work both as an individual and as an integral part of a team to develop your agribusiness risk and farm management skills. You will be introduced to satellite-based technologies for soil, crop and livestock management systems.

You will also have opportunities to develop links with industry through engaging with industry experts in classrooms and workshops, and through field trips to research centres and agronomic field sites.

As part of this course you will undertake a work placement to ensure you graduate with the science, technology and business skills you need to thrive in agribusiness.

This placement can be with agriculture research, production or business industries both locally and globally.

### CAREER OPPORTUNITIES:

Agricultural and resource economist, agricultural scientist, agronomist, biotechnologist (including plant and animal breeding), farm management and farm consultant, grain trader.

### EMPLOYMENT INDUSTRIES:

Agricultural industries, agriculture marketing and supply chain logistics, agricultural product suppliers, banking and finance, farmer grower groups.

### PROFESSIONAL MEMBERSHIPS:

Australian Institute of Agricultural Science and Technology.



*"One of the reasons behind my decision to study Agribusiness is that of global hunger. It is going to be an ever-increasing problem in the future. My goal is to increase sustainability in agriculture and perform research as to how to minimise global hunger and famine into the future."*

**Trent Collins**  
Bachelor of Agribusiness



## Did you know?

New technologies could see us eating algae-based sources of protein, developing allergenic-free nuts and tolerable varieties of lactose and gluten, and reducing environmental impact through edible packaging.

Source: CSIRO, Roadmap 2017.





AGRICULTURE, ENVIRONMENT AND SUSTAINABILITY



STAT key: V = Verbal; Q = Quantitative; WE = Written English

COASTAL AND MARINE SCIENCE

**Degree:** Bachelor of Science (Coastal and Marine Science)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** Mathematics: Applications ATAR

**Desirable:** One of the following ATAR science subjects: 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, or Applied Information Technology.

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

COURSE DESCRIPTION:

The need to sustain Australia’s marine environment is more important than ever as we face an uncertain future driven by climate change, increasing resource extraction and coastal development. Coastal and marine scientists are essential to ensuring the sustainable management of this environment.

This course reflects the growing need to protect Australia’s coastline, with an emphasis on marine biology, oceanographic sciences and resource management. It has been designed with industry input to deliver a learning experience focused on developing scientific and marine research skills.

The course is delivered by staff actively researching a variety of fields including fish ecology, coral reef ecology, marine pollution, coastal geomorphology, sustainable fisheries and aquaculture. The result is a dynamic and engaging learning environment in which teaching is informed by current research.

Throughout this course, you will be challenged to think as a marine scientist, developing your initiative and intellectual curiosity to help understand and protect the marine environment.

You will also interact with people working in marine and coastal science and management, such as the Department of Environment and Conservation, the Department of Fisheries, the WA Environmental Protection Authority, marine science consultancies, the mining and petroleum industries and Curtin’s Centre for Marine Science and Technology.

CAREER OPPORTUNITIES:

Aquaculturalist, ecotoxicologist, fisheries scientist, environmental consultant.

EMPLOYMENT INDUSTRIES:

Aquaculture, coastal management, fisheries, government policy, mining and engineering, pollution control.

PROFESSIONAL MEMBERSHIPS:

Australian Marine Science Association.

DOUBLE DEGREES AVAILABLE:

See page 102.

ENVIRONMENTAL SCIENCE

**Degree:** Bachelor of Science (Environmental Science)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** Mathematics: Methods ATAR and Chemistry ATAR

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

COURSE DESCRIPTION:

Human exploitation of the environment has taken a serious toll on the planet. Environmental scientists are needed to solve issues such as land degradation; urban and regional development challenges; impacts of mining, oil and gas extraction and processing; biodiversity loss and pollution.

The core units develop your expertise in zoology, botany, ecology, genetics, environmental management, sustainability, statistics, and in undertaking environmental research. The core biology units in combination with streams targeted to specific disciplines help you develop the knowledge and skills needed to meet these challenges.

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 opportunities to work towards research programs with leading wildlife biologists.

Restoration

Restoration is a A\$2 trillion global enterprise encompassing marine, aquatic-to-terrestrial and desert ecosystems. This unique study stream places you at the forefront of this discipline and sets you on the path to advanced training through the Curtin Centre for Mine Site Restoration, the largest research facility of its kind in the world.

Genetics

This stream will help you develop the practical and theoretical skills required to contribute to the field of genetics and microbiology. You will interact with a number of research teams that use genetic/bioinformatic approaches in the environmental and agricultural disciplines. Genetics and genomics have expanded rapidly in recent years and offer a number of employment opportunities as well as pathways to higher degree programs.

Environmental Chemistry

There is an increasing need to understand and manage the adverse effects of contaminants on the environment and on the biota that live in it. This stream gives you the chemical and toxicological skills necessary to evaluate degraded environments and implement strategies to restore environmental health.

CAREER OPPORTUNITIES:

Conservation scientist, environmental consultant, environmental scientist, mine restoration consultant, natural resource manager, remediated lands consultant.

EMPLOYMENT INDUSTRIES:

Environmental consultancies, government policy and planning, research and development, urban and regional planning.

► GEOGRAPHY MAJOR

**Degree:** Bachelor of Arts (Geography)

**Faculty:** Humanities

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** None

**STAT:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth, online

*Note: This is one of the 21 majors offered by the Bachelor of Arts (Humanities) degree. See pages 79 and 87.*

COURSE DESCRIPTION:

Geographers are versatile individuals who strive to build a deeper understanding of the human and physical environments in which we live.

In this major, you will become familiar with the relationships between people, places and environments, and how we interact with the world around us.

You will examine the threats and opportunities posed by urbanisation, globalisation, climate change and other global issues to communities within a local, regional, national and international context. You will be encouraged to explore Indigenous rights, migration changes and social movements; find effective systems of local, national and international governance; and learn how to secure essential food and energy supplies for those in need.

You will also be encouraged to develop analytical and practical fieldwork skills. You will be taught how to conduct interviews and surveys; carry out mapping, participant observation and statistical analysis; take field notes; and write demographic reports.

CAREER OPPORTUNITIES:

Environmental assessment officer, international development worker, landcare worker, natural resource manager, regional development officer, social assessment officer.

DOUBLE MAJORS AVAILABLE:

See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

DOUBLE DEGREES AVAILABLE:

See page 102.



# ENGINEERING AND MINING

STAT key: V = Verbal; Q = Quantitative; WE = Written English

## COURSES

- Engineering
  - Chemical Engineering
  - Civil and Construction Engineering
  - Electrical and Electronic Engineering
  - Mechanical Engineering
  - Mechatronic Engineering
  - Metallurgical Engineering
  - Mining Engineering
  - Petroleum Engineering
- Extractive Metallurgy
- Mine and Engineering Surveying
- Mining

### SEE ALSO:

- Applied Geology (page 54)
- Geographic Information Science (page 57)
- Surveying (page 61)

Engineers are involved in building, design and process across a broad range of industries. Our engineering and mining courses will give you hands-on experience and teach you how to solve problems to make a real difference in the world. Access outstanding, purpose-built facilities at a university ranked second in the world for mineral and mining engineering.\* You'll develop the self-confidence and interpersonal skills needed for a successful career in some of the world's most economically important industries.

\*QS World University Rankings by Subject 2018



Discover what it's like to run your own gold mine with our free online course, The Business of Mining.

[edx.org/course/the-business-of-mining](https://edx.org/course/the-business-of-mining)



## ENGINEERING

**Degree:** Bachelor of Engineering (Hons)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 80

**Prerequisites:** Mathematics: Methods ATAR and at least one of the following: Chemistry ATAR, Physics ATAR or Engineering Studies ATAR

**Desirable:** Mathematics: Specialist ATAR  
**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 4 years full-time

**Location:** See individual majors

**Majors available:** Chemical Engineering, Civil and Construction Engineering, Electrical and Electronic Engineering, Mechanical Engineering, Mechatronic Engineering, Metallurgical Engineering, Mining Engineering, Petroleum Engineering.

*Note: This course is not available at all locations every year.*

### COURSE DESCRIPTION:

Curtin's Bachelor of Engineering (Honours) offers you an industry-connected education experience that is uniquely placed to help provide solutions to complex challenges faced by society, and to improve the quality of life for people all around the world.

The Bachelor of Engineering (Honours) begins with the award-winning Engineering Foundation Year (EFY). Developed in partnership with industry, the program and its purpose-built first-year studios encourage learning by doing.

You will study the fundamental concepts and develop the required skills common to all areas of engineering. You will have a great opportunity to explore the range of engineering majors available to you before choosing the one you wish to specialise in from your second year.

In years 2 to 4 of your engineering degree, you will study units relevant to your chosen major. You can find more information about the majors in the following pages of this guide.

In your fourth year, you will undertake an honours-level research project that will give you an indepth understanding on a chosen thesis topic. It involves an independent research project structured across two units of study, showing employers your skills in planning and carrying out a complex body of work within defined deadlines.

### Engineering Foundation Year

The Engineering Foundation Year (EFY) program was developed as a base for all Curtin engineering disciplines to produce graduates with solid theoretical grounding, strong practical experience and cultural awareness.

The EFY and its support services endeavour to ensure that Curtin engineering students can progress smoothly into their area of specialisation and graduate as sought-after and career-ready engineers. Its cross-disciplinary curriculum has been designed to provide the skill base required for the commencement of discipline-specific engineering studies.

### PROFESSIONAL PRACTICE:

To graduate from this course, you must undertake 480 hours of exposure to professional practice and complete Senior First-Aid training.

Alongside your academic studies, exposure to professional practice can be obtained by a combination of real-world experiences. Examples include work placements (paid or voluntary), university-based experience in industrial projects, attending extracurricular technical lectures/workshops and industry site visits in Australia or overseas.

### PROFESSIONAL ACCREDITATION:

All Curtin engineering degrees meet the stage one requirements for the pathway to professional engineer status (CPEng) from Engineers Australia.





## ENGINEERING AND MINING

STAT key: V = Verbal; Q = Quantitative; WE = Written English



### ► CHEMICAL ENGINEERING MAJOR

**Degree:** Bachelor of Engineering (Hons) (Chemical Engineering)

**Location:** Perth, Malaysia

**COURSE DESCRIPTION:**

Chemical or 'process' engineering involves finding the best sequence of chemical and physical processing operations, and 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.

A great variety of process industries serve the needs of society. These include petroleum refining, gas processing, petrochemical and polymer production, bio-processing, pharmaceuticals, food processing, water and wastewater treatment, fertiliser manufacture, cement and lime production, minerals and metals extraction and refining, paper and board manufacture, biomass and sugar refining, and production of industrial and fine chemicals. You can specialise in one of the following streams:

**Chemical Engineering**

In the general chemical engineering stream you will examine the development, design and operation of processes for the extraction, conversion and purification of a wide range of materials. This stream covers the theory and applications of fluid flow, energy transfer, separation and chemical reaction for the synthesis, design, control and optimisation of general chemical processes.

### Oil and Gas

The oil and gas stream covers chemical engineering fundamentals, but will also give you more detailed knowledge of the exploration, development and conservation of oil and gas resources. You will explore the theory and practice required to plan and supervise drilling and well-completion programs; design and select drilling and production equipment; estimate reserves; and manage oil and gas processes.

**CAREER OPPORTUNITIES:**

Chemical engineer, process engineer, production/operations engineer, risk and safety manager.

**EMPLOYMENT INDUSTRIES:**

Agrochemicals, automotive and aerospace materials, bioengineering and biotechnology, food processing, minerals and materials processing, oil, gas and petrochemicals, pharmaceuticals, semiconductors, water and wastewater treatment.

**PROFESSIONAL RECOGNITION:**

This course meets the stage one requirements for the pathway to professional engineer status (CPEng) from Engineers Australia. This course is also recognised by the Institution of Chemical Engineers to be equivalent to the MEng degree in the UK.

**DOUBLE DEGREES AVAILABLE:**

See page 102.

### ► CIVIL AND CONSTRUCTION ENGINEERING MAJOR

**Degree:** Bachelor of Engineering (Hons) (Civil and Construction Engineering)

**Location:** Perth, Malaysia, Sri Lanka, Dubai

Only years 3 and 4 of this course are available to study in Sri Lanka, and must be studied full-time.

**COURSE DESCRIPTION:**

Civil engineers design and construct our infrastructure. Every structure that is on or in the ground is the work of civil engineers. They build bridges, roads, harbours, highways, dams, irrigation and water supplies, hydro-electric projects, tall buildings and other large structures.

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 your first two years, you will develop basic scientific, mathematical and practical skills, and learn how to use these skills to solve engineering problems, first in our Engineering Foundation Year and then by developing specific civil engineering attributes.

In your third year, you will learn to apply these skills in structural analysis and design, materials, geotechnical engineering, construction engineering, hydraulics and professional practice.

In your final year of study, you will undertake a major research or design project. Speciality options include the environment, transport, public health or advanced structural design.

Some examples of project topics include structural integrity analyses/design; construction materials science or pavement design; water quality or water systems design; bio-activated/nano-assessment; and construction management applications.

**CAREER OPPORTUNITIES:**

Building contractor, civil engineer, design engineer, site engineer.

**EMPLOYMENT INDUSTRIES:**

Consulting engineers, government authorities, large contractors, specialist subcontractors.

**PROFESSIONAL RECOGNITION:**

This course meets the stage one requirements for the pathway to professional engineer status (CPEng) from Engineers Australia.

**DOUBLE DEGREES AVAILABLE:**

See page 102.

### ► ELECTRICAL AND ELECTRONIC ENGINEERING MAJOR

**Degree:** Bachelor of Engineering (Hons) (Electrical Power Engineering)

**Location:** Perth, Sri Lanka

Only years 3 and 4 of this course are available to study in Sri Lanka, and must be studied full-time.

**COURSE DESCRIPTION:**

Electrical power engineering considers the generation, transmission, distribution and application of electrical energy, as well as harnessing renewable and sustainable energy. Electronic engineering focuses on and is driven by the rapid advancement of electronic communication and embedded systems (the 'internet of things').

This course will give you an appreciation of the whole field. You can choose to specialise in Electrical Power Engineering, or Electronic Engineering. In this course, you can learn about the theoretical and practical aspects of electrical power generation and distribution systems, electric motors, renewable energy systems and their integration to the electricity grid, digital electronic and communication systems, embedded systems, sensors, control instruments, electronic design, signal processing, and telecommunication and computer networks.

The second year is common to all electrical and electronic engineering streams, with specialisation units included in the final two years of the program. In your final year you will undertake a major research or design project, along with completing at least 12 weeks of professional engineering practice.

**CAREER OPPORTUNITIES:**

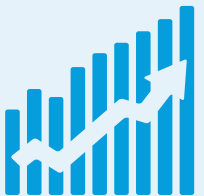
Communications engineer, electrical engineer, electrical power engineer, electronics engineer, network controller, power systems engineer, systems engineer.

**EMPLOYMENT INDUSTRIES:**

Application engineering, computer hardware design, electronic systems, fibre optics and mobile communications, manufacturing, robotics, software development, solar and renewable energies.

**PROFESSIONAL RECOGNITION:**

This course meets the stage one requirements for the pathway to professional engineer status (CPEng) from Engineers Australia.



**Employment for civil engineering professionals is expected to grow strongly.**

[joboutlook.gov.au](http://joboutlook.gov.au) 2017





## ENGINEERING AND MINING

STAT key: V = Verbal; Q = Quantitative; WE = Written English

### ► MECHANICAL ENGINEERING MAJOR

**Degree:** Bachelor of Engineering (Hons) (Mechanical Engineering)

**Location:** Perth, Malaysia, Sri Lanka, Dubai  
Only years 3 and 4 of this course are available to study in Sri Lanka, and must be studied full-time.

#### COURSE DESCRIPTION:

Mechanical engineers analyse and develop technological systems that involve motion. They help society to harness the energy and forces that exist in nature.

The conception, design, manufacturing, maintenance and management of systems, ranging from micromechanical devices through to massive power-generating turbines, are all within the scope of mechanical engineering.

Modern air and ground transport systems, and thermal power generation are a few key examples of mechanical engineering accomplishments.

Mechanical engineering is one of the classic engineering disciplines, understood and recognised all around the world. It is also one of the broadest engineering disciplines, meaning that as a graduate of this course, you will have developed versatile skills that will suit many areas of employment.

This course is fundamentally oriented to provide learning and skills development opportunities with hands-on experience. You will learn how to apply your knowledge and skills to invent or develop solutions to a wide range of exciting and challenging problems in industry.

You will appreciate the applicability of the multi-disciplinary problem-solving skills of a mechanical engineer across areas of science and a wide spectrum of engineering endeavours that extends all the way to biomedical engineering.

In your final year you will undertake an individual design or research project.

#### CAREER OPPORTUNITIES:

Aeronautical engineer, mechanical engineer, mechatronic engineer.

#### EMPLOYMENT INDUSTRIES:

Aerospace and automotive, manufacturing, mining, mineral and material processing, plant operation and maintenance, power generation, robotics, system design, transport, water supply.

#### PROFESSIONAL RECOGNITION:

This course meets the stage one requirements for the pathway to professional engineer status (CPEng) from Engineers Australia.

#### DOUBLE DEGREES AVAILABLE:

See page 102.

### ► MECHATRONIC ENGINEERING MAJOR

**Degree:** Bachelor of Engineering (Hons) (Mechatronic Engineering)

**Location:** Perth

#### COURSE DESCRIPTION:

Mechatronic engineers work at the cutting edge of automation and control technology, in fields that include advanced manufacturing, mining, subsea engineering, aerospace, biotechnology, robotics and agritechology. With skills in mechanical and electronic design, computer systems and control, mechatronic engineers are in high demand for the jobs of the future.

Advances in automation applications such as self-driving cars are resulting in an increased awareness of the need for innovative mechatronic engineers. As the number of industries being disrupted by digital technologies grows, so do opportunities for mechatronic engineers. Industries such as transportation, agriculture and biomedical engineering all require the expertise of mechatronic engineers to work towards smart solutions to some of society's most important problems.

As a mechatronic engineering student, you will design and maintain electronic and computer-controlled systems, including power generators, mining and chemical plant machinery, and intelligent machines such as unmanned aerial vehicles and autonomous robots.

You will develop sound theoretical knowledge in the key disciplines of mechanics, electronics and computer systems.

In your final year of study, you will undertake a major research or design project.

#### CAREER OPPORTUNITIES:

Automation engineer, data scientist, mechanical engineer, mechatronic engineer.

#### EMPLOYMENT INDUSTRIES:

Aerospace, agritechology, autonomous vehicles, biosensors and security systems, biotechnology and biomechanics, drone and unmanned aerial vehicles, manufacturing, mining, oil and gas, renewable energy grids, robotics, subsea engineering.

#### PROFESSIONAL RECOGNITION:

This course meets the stage one requirements for the pathway to professional engineer status (CPEng) from Engineers Australia.

### ► METALLURGICAL ENGINEERING MAJOR

**Degree:** Bachelor of Engineering (Hons) (Metallurgical Engineering)

**Location:** Perth then Kalgoorlie

#### COURSE DESCRIPTION:

Metallurgical engineers mostly work in converting raw metals into more useable formats, such as converting iron ore and coal into steel. They extract, refine and recycle metals to produce products that are stronger, more durable and more energy efficient.

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 in an economical and environmentally responsible way.

You will receive a strong grounding in chemical and physical engineering, economic, environmental and sustainable principles, and the extraction of metals from ores. The course also includes a strong management component.

After your Engineering Foundation Year at Bentley, you can go directly to Curtin WA School of Mines in Kalgoorlie, or study for a second year in Perth before completing your third and final years in Kalgoorlie. Studying in Kalgoorlie will provide you with meaningful exposure to the mining industry.

In your final year of study, you will undertake a major research or design project.

#### CAREER OPPORTUNITIES:

Hydrometallurgist, metallurgist, metallurgical engineer, minerals engineer, process control specialist, process engineer, process mineralogy specialist, pyrometallurgy specialist.

#### EMPLOYMENT INDUSTRIES:

Banking and finance, consultancies, engineering, equipment design and sales, mining and mineral processing, research and development.

#### PROFESSIONAL RECOGNITION:

This course meets the stage one requirements for the pathway to professional engineer status (CPEng) from Engineers Australia. This course is recognised by the Australasian Institute of Mining and Metallurgy.

#### DOUBLE DEGREES AVAILABLE:

See page 102.

### ► MINING ENGINEERING MAJOR

**Degree:** Bachelor of Engineering (Hons) (Mining Engineering)

**Location:** Perth then Kalgoorlie

#### COURSE DESCRIPTION:

Mining engineers may supervise other engineers, surveyors, geologists, scientists and technicians working on a mine site. Working in metropolitan or regional locations around the world, mining engineers can have adventurous careers.

In this major, you will study engineering as well as basic science subjects. 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.

After your Engineering Foundation Year in Perth, you can go directly to Curtin WA School of Mines in Kalgoorlie, or study for a second year in Perth before completing your third and final years in Kalgoorlie. Studying in Kalgoorlie will provide you with meaningful exposure to the mining industry.

In your final year of study you will undertake a major research or design project.

#### CAREER OPPORTUNITIES:

Management consultant, mine manager, mine planner and designer, mining company director, mining engineer, operations manager.

#### EMPLOYMENT INDUSTRIES:

Government, mining and resources, research and development, risk analysis and investment.

#### PROFESSIONAL RECOGNITION:

This course meets the stage one requirements for the pathway to professional engineer status (CPEng) from Engineers Australia. The course is also recognised by the Mining Education Australia and Australasian Institute of Mining and Metallurgy.

#### PROFESSIONAL CERTIFICATION:

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

#### DOUBLE DEGREES AVAILABLE:

See page 102.





## ENGINEERING AND MINING

STAT key: V = Verbal; Q = Quantitative; WE = Written English

### ► PETROLEUM ENGINEERING MAJOR

**Degree:** Bachelor of Engineering (Hons) (Petroleum Engineering)  
**Location:** Perth, Malaysia

#### COURSE DESCRIPTION:

Petroleum engineers figure out the best way to extract oil and gas from deposits below the Earth's surface. They work closely 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 for that site.

Currently, reservoirs yield only about 30 per cent of their oil, so petroleum engineers are needed to develop methods to increase oil and gas production. They are also needed to help develop newly discovered and future offshore gas fields.

Curtin is located in the hub of the oil and gas industry in Australia. We are building a strong reputation for excellence in the sector, with our researchers and academics collaborating closely with industry to develop solutions that enhance resource performance, technology and environmental management.

In this major, you will learn how to evaluate, drill and then develop and mine oil and gas reserves. You will examine issues involving fluid flow through reservoirs, basic geology, the role of engineering in oil and gas production, chemical engineering, thermodynamics, hydrocarbon phase behaviour, drilling and well engineering.

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

You will have the opportunity for practical study in fluid and reservoir rock laboratories and geodynamics laboratory work, and you will get industry exposure through field trips to service company offices and drilling sites.

In your final year of study, you will undertake a major research or design project.

#### CAREER OPPORTUNITIES:

Drilling engineer, petroleum engineer, production engineer, reservoir engineer, subsurface or completions engineer.

#### EMPLOYMENT INDUSTRIES:

Oil and gas, research and development.

#### PROFESSIONAL RECOGNITION:

This course meets the stage one requirements for the pathway to professional engineer status (CPEng) from Engineers Australia.

### EXTRACTIVE METALLURGY

**Degree:** Bachelor of Science (Extractive Metallurgy)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** Mathematics: Applications ATAR and Chemistry ATAR or Physics ATAR

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth then Kalgoorlie

#### COURSE DESCRIPTION:

Extractive metallurgists extract and purify metals and other products from ores obtained through mining operations. In today's world that means bringing together chemistry, environmental science, mineralogy, communication and other skills into the discipline of extractive metallurgy.

In this course you will learn to develop, optimise and manage the operation of metallurgical processing plants that transform low-value raw materials into useful, high-value mineral and metal products in an economical and environmentally responsible way.

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 the main campus in Perth, the second year at either Perth or the WA School of Mines in Kalgoorlie, and the final year at Kalgoorlie, which can help you maximise your exposure to industry and potential future employers.

#### CAREER OPPORTUNITIES:

Metallurgist, plant metallurgist, process metallurgist, processing consultant.

#### EMPLOYMENT INDUSTRIES:

Banking and finance, minerals and mining, research and development.

#### PROFESSIONAL RECOGNITION:

Australasian Institute of Mining and Metallurgy.

#### DOUBLE DEGREES AVAILABLE:

See page 102.

### MINE AND ENGINEERING SURVEYING

**Degree:** Bachelor of Science (Mine and Engineering Surveying)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** Mathematics: Applications ATAR

**Desirable:** Mathematics: Methods ATAR

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth then Kalgoorlie

#### COURSE DESCRIPTION:

Mine and engineering surveying are specialist areas of modern day surveying. Mine surveyors measure underground and open-cut mines in detail, helping mining companies locate new mines safely. Engineering surveyors work on construction and infrastructure projects to ensure challenging building specifications are met.

Curtin offers the only comprehensive degree in mine and engineering surveying in Western Australia.

In this course you will develop skills in marking out, measurement and maintenance of direction for all surface and underground workings on a mine site. You will also learn how to prepare and update mine surveying plans for open-pit and underground workings.

In your engineering surveying units, you will learn how to ensure civil engineering works are placed in their correct positions and orientations, with respect to all three dimensions.

The first two years of the course are taught at the Bentley Campus in Perth, while the third year is taught at the WA School of Mines in Kalgoorlie, with exposure to real-world environments and practices.

This major prepares you with the appropriate practical experience for operational management at the quarry manager level.

#### CAREER OPPORTUNITIES:

Engineering surveyor, mine surveyor, surveyor.

#### EMPLOYMENT INDUSTRIES:

Construction, mining and resources.

#### PROFESSIONAL CERTIFICATION:

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

#### PROFESSIONAL MEMBERSHIPS:

Surveying and Spatial Sciences Institute and the Western Australian Institute of Surveyors.

#### PROFESSIONAL RECOGNITION:

Australasian Institute of Mining and Metallurgy.

### MINING

**Degree:** Bachelor of Science (Mining)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** Mathematics: Applications ATAR, and Chemistry ATAR or Physics ATAR

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth then Kalgoorlie

#### COURSE DESCRIPTION:

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 will 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 will be taught in Perth, the second year at either Perth or the WA School of Mines in Kalgoorlie, and your final year at Kalgoorlie, which can help you maximise your exposure to industry and potential future employers.

You will also have the opportunity to go on field trips to gain real-world experience in mining.

#### CAREER OPPORTUNITIES:

Engineering consultant, mine manager, mine ventilation officer, mining company director, mining engineer.

#### POTENTIAL EMPLOYERS:

International and Australian mining companies.

#### PROFESSIONAL CERTIFICATION:

This course meets the education requirements of the Western Australian Department of Mines and Petroleum 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.

#### PROFESSIONAL RECOGNITION:

Australasian Institute of Mining and Metallurgy.

#### DOUBLE DEGREES AVAILABLE:

See page 102.



# IT AND COMPUTING

STAT key: V = Verbal; Q = Quantitative; WE = Written English

## COURSES

- Computer Systems and Networking
- Computing
- Data Science

### SEE ALSO:

- Commerce
  - Business Information Systems (Professional) (page 26)
  - Business Information Technology (Professional) (page 26)
- Arts
  - Digital Design (page 81)
  - Internet Communications (page 89)
  - Visualisation and Interactive Media (page 83)

Explore new technology and show your creative flair and eye for technical detail with Curtin's IT and computing courses. Learn how to program computers, administer networks and 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.



## COMPUTER SYSTEMS AND NETWORKING

**Degree:** Bachelor of Technology (Computer Systems and Networking)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** At least Mathematics: Applications ATAR

**Desirable:** Mathematics: Methods ATAR or Mathematics: Specialist ATAR

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth, Malaysia, Sri Lanka, Dubai  
Only the final year (year 3) of this course is available to study in Sri Lanka, and must be studied full-time.

### COURSE DESCRIPTION:

Computer systems and network administrators are responsible for the upkeep, configuration and reliable operation of computer networks, which form the backbone of modern information systems.

This course has been designed to help you fully understand computer network design and development technologies so you can pursue career opportunities in this rapidly expanding field. The course integrates current developments in wired and wireless networking, offering a comprehensive view of the industry.

You will develop skills in network design and management, the convergence of IT and telecommunications, embedded systems, computer hardware and software, real-time systems and IT technical support. Your focus will be on the design and support of distributed computer and telecommunications networks.

A feature of this course is certification-based training with IT leaders such as Cisco, through Innovation Central Perth, which is housed at Curtin. By the time you graduate, you will have the skills to expand the capabilities of networks already in place and to build new ones.

### CAREER OPPORTUNITIES:

Industrial network technician, IT professional, network and system administrator, systems designer, telecommunications manager.

### EMPLOYMENT INDUSTRIES:

Government, private business, public sector.

### PROFESSIONAL RECOGNITION:

Australian Computer Society. Graduates meet Engineers Australia's stage 1 competency standard for engineering technologist.

### PROFESSIONAL MEMBERSHIPS:

Engineers Australia as a Engineering Technologist.



STAT key: V = Verbal; Q = Quantitative; WE = Written English

## COMPUTING

**Degree:** Bachelor of Science (Computing)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** Mathematics: Applications ATAR

**Desirable:** Mathematics: Methods ATAR

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth, Sri Lanka, Dubai

Only the final year (year 3) of the Information Technology and Software Engineering streams are available to study in Sri Lanka, and must be studied full-time.

*Note: Portfolio entry is available for this course. See page 104.*

### COURSE DESCRIPTION:

Computer scientists, software engineers, programmers and other computing professionals are experts on how technology works and how computing can address even the most complicated and intricate problems.

This major will provide you with the skills and knowledge you need for a successful career in the rapidly evolving information and communications technology industry.

In your first year, you will develop your programming skills and study the fundamental theoretical knowledge of computing. Topics include C++, Java, Linux and object oriented programming.

In your second year you can specialise in one of the following streams:

#### Computer Science

In this stream you will develop in-depth knowledge of software design and algorithm analysis, as well as artificial intelligence, computer communications, databases and graphics. Your study will focus on the knowledge required to build operating systems and design new programming languages. As computer science theory and applications are mathematically based, there is a strong emphasis on mathematics.

#### Cyber Security

This stream focuses on the key concepts and challenges in data and resource protection and computer software security. You will examine the high level (cryptography theory, data access policy development and security program management) and low level (computer forensics, network intrusion detection and incident handling) practical aspects of computer security.

You will develop skills in identifying appropriate applications for specific scenarios, with an understanding of cultural and ethical issues related to protecting individual rights.

#### Information Technology

In this stream you will learn the technological and applied aspects of computing, with less emphasis on theory.

You will study system programming, software design and engineering, networking (including the internet and the web), cyber security basics and graphics.

#### Software Engineering

This stream aims to produce graduates who are well-versed in the principles of design, measurement and analysis applied to the development of software-based systems.

You will receive a strong foundation in computer science, with further emphasis on software requirements gathering, design, implementation and testing. You will also focus on communication skills, professional responsibility, ethics, interpersonal relationships, teamwork and time management. In your final year you will undertake an industry-based project.

### CAREER OPPORTUNITIES:

Computer programmer, IT professional, software engineer/developer.

### EMPLOYMENT INDUSTRIES:

Applications development, cyber security, game design and development, IT administration, IT analysis, IT support, programming, software development.

### PROFESSIONAL ACCREDITATION:

Australian Computer Society.

### PROFESSIONAL RECOGNITION:

Depending on your specialisation, this course is recognised by the Institute of Electrical and Electronic Engineers, the Association for Computer Machinery or the Australian Computer Society.

## DATA SCIENCE

**Degree:** Bachelor of Science (Data Science)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 80

**Prerequisites:** Mathematics: Methods ATAR

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

Data scientists harness the power of data and computation to drive innovation. They work at the interface of computing, statistics, visualisation and media to collate and analyse large volumes of data and then communicate findings to a range of audiences. Their ability to leverage big data to predict future trends is becoming an essential part of decision-making in business and government.

Data is generated at an unprecedented rate and its availability will continue to increase into the foreseeable future. Every industry is using large volumes of data - from predicting weather patterns and optimising harvesting in agriculture, to improving patient diagnosis and treatment in the health industry, to enhancing the management of remote infrastructure in mining.

The Data Science major is a multidisciplinary degree. It combines studies in computing, statistics, emerging internet technologies, and media. Foundational studies in programming and statistics form the basis of higher level studies in data mining, data security and computer simulation.

The course builds your capacity to extract, analyse and visualise large volumes of data and communicate analytical outcomes to a range of audiences. You will graduate from the Data Science major equipped to enter a range of industries where data science is key to innovation.

### CAREER OPPORTUNITIES:

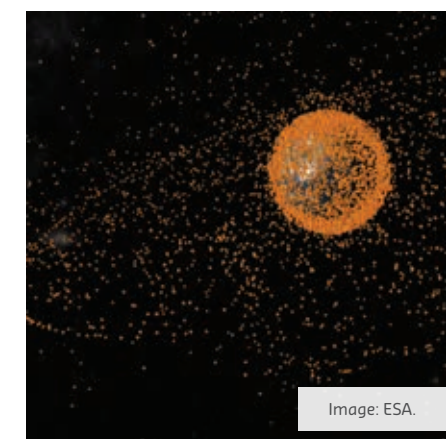
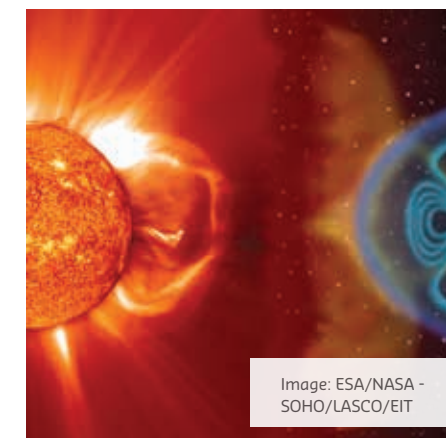
Data analyst, data scientist.

### EMPLOYMENT INDUSTRIES:

Agriculture and environment, arts, business and finance, economics, global business consultancies, government, health science, media, supply chain logistics, tech companies.

### DOUBLE DEGREES AVAILABLE:

See page 102.



**Data scientists are predicting likely road accidents and traffic jams before they happen by rationalising live data from cameras, road sensors and weather conditions. Probable incidents can then be avoided by taking appropriate steps to manage traffic flow.**





# PHYSICAL SCIENCES AND MATHEMATICS

STAT key: V = Verbal; Q = Quantitative; WE = Written English

## COURSES

- Actuarial Science
- Advanced Science (Honours)
- Applied Geology
- Biochemistry
- Chemistry
- Financial Mathematics
- Geographic Information Science
- Geophysics
- Industrial and Applied Mathematics
- Multidisciplinary Science
- Physics
- Surveying

### SEE ALSO:

- Data Science (page 50)
- Environmental Science (page 38)
- Geographic Information Science (page 57)

Science and mathematics are at the heart of new discoveries, inventions and technology. Develop your knowledge in subjects such as chemistry, physics, biochemistry, statistics or industrial modelling. You'll learn how to apply your studies to real-world problems and situations, and have opportunities to work in environments where research and discovery abound.



## ACTUARIAL SCIENCE

**Degree:** Bachelor of Science (Actuarial Science)  
**Faculty:** Science and Engineering  
**Guaranteed 2019 ATAR:** 92  
**Prerequisites:** Mathematics: Methods ATAR  
**Desirable:** Mathematics: Specialist ATAR  
**STAT:** Not accepted  
**Study mode:** Full-time, part-time  
**Duration:** 3 years full-time  
**Location:** Perth

### COURSE DESCRIPTION:

Actuaries analyse mathematical, statistical, demographic, financial and economic data in order to predict and assess the effects of long-term risks involved in financial decisions and planning.

Actuaries are often tasked with solving business problems. For example, they may analyse future financial events, especially when the amount or timing of a payment is uncertain. Actuaries may also assess when and where devastating storms may hit to help predict risks, and their associated costs, for investments or insurance.

In this course, you will develop the mathematical and statistical techniques relevant to model industrial and commercial processes against a financial and economic background. You will also learn to identify the risk factors and determine the price and cost of those risks.

In your third year you will choose to specialise in actuarial science or actuarial and applied statistics. To be eligible for entry to the actuarial science major, there is a minimum course-weighted average mark that you must have achieved.

### CAREER OPPORTUNITIES:

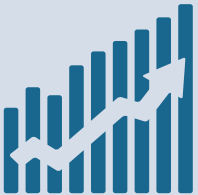
Actuary, business analyst, data scientist, mathematician, statistician, risk manager.

### EMPLOYMENT INDUSTRIES:

Data analytics, education, enterprise risk management, environment and climate change, financial services, health, public infrastructure.

### PROFESSIONAL ACCREDITATION:

Actuaries Institute (Australia).



**Employment for actuaries, mathematicians and statisticians is expected to grow strongly.**

[joboutlook.gov.au](http://joboutlook.gov.au) 2017





PHYSICAL SCIENCES AND MATHEMATICS

STAT key: V = Verbal; Q = Quantitative; WE = Written English

ADVANCED SCIENCE (HONOURS)

**Degree:** Bachelor of Advanced Science (Honours)  
**Faculty:** Science and Engineering  
**Guaranteed 2019 ATAR:** 95  
**Prerequisites:** Mathematics: Methods ATAR. In addition to this, each major in this course has specific entry prerequisites. Please visit [courses.curtin.edu.au](http://courses.curtin.edu.au) to determine the specific ATAR subjects required.  
**Desirable:** Each major in this course has specific desirable subjects. Please visit [courses.curtin.edu.au](http://courses.curtin.edu.au) to determine the specific desirable ATAR subjects.  
**STAT:** Not accepted  
**Study mode:** Full-time, part-time  
**Duration:** 4 years full-time  
**Location:** Perth

**COURSE DESCRIPTION:**  
Tomorrow’s world needs scientists who are not only exceptionally skilled and knowledgeable in their chosen discipline, but able to apply their knowledge to real world situations with global significance.  
The Bachelor of Advanced Science (Honours) is designed for high-achieving ATAR students who want to study with like-minded individuals and turn their passion for science into a rewarding career.  
This course will provide you with highly developed scientific inquiry and research skills, as well as entrepreneurial and leadership knowledge. You will undertake work-integrated learning opportunities from your first year, giving you practical experience and skills well before you graduate – a quality highly valued by employers.

This course differs from the Bachelor of Science in that it enables you to tailor the course to suit your specific interests and gives you access to advanced level units that lead to an honours degree. It is designed to ensure you graduate as a creative, autonomous and knowledgeable individual who is able to remain resilient in changing employment landscapes.  
You will learn core science units and choose a science major in which to specialise. You can select optional units from within your chosen discipline to further develop specialised knowledge and skills, or choose units from other areas of the University to pursue a separate field of interest.  
You will also study units in scientific professional practice, entrepreneurship and leadership, and undertake internal and external research experiences and industry placements.  
In your final year, you will have the opportunity to conduct a self-directed honours project that will add to the scientific knowledge in your field.

- AVAILABLE MAJORS:**
- Agricultural Science
  - Chemistry
  - Coastal and Marine Science
  - Computing
  - Data Science
  - Environmental Science
  - Financial Mathematics
  - Geographic Information Science
  - Industrial and Applied Mathematics
  - Molecular Genetics
  - Physics

APPLIED GEOLOGY

**Degree:** Bachelor of Science (Applied Geology)  
**Faculty:** Science and Engineering  
**Guaranteed 2019 ATAR:** 70  
**Prerequisites:** Mathematics: Applications ATAR  
**STAT:** WE, V and Q  
**Study mode:** Full-time, part-time  
**Duration:** 3 years full-time or part-time equivalent  
**Location:** Perth, Kalgoorlie, Malaysia  
All streams are not available at all locations.

*Note: Portfolio entry is available for this course. See page 104.*

**COURSE DESCRIPTION:**  
Geologists study how the Earth works, including the natural planetary processes and issues directly affecting people, such as viability of resources, geological hazards, climate change and environmental protection.  
In this course you will gain a thorough grounding in theoretical and practical geology together with technical and commercial skills.  
The first year gives you a basic foundation in chemistry, physics, mathematics, scientific communication and computer skills, as well as an introduction to geology. The second year focuses on the theoretical, laboratory and field skills required to understand geological processes. The first two years of the program are based in Perth.  
The final year provides comprehensive coverage of one chosen stream of geology: Applied Geology, Mining Geology or Petroleum Geology. It is studied at Perth only for Applied Geology, Kalgoorlie only for Mining Geology and Malaysia only for Petroleum Geology.  
The Petroleum Geology stream is not available to international students studying in Australia.

**CAREER OPPORTUNITIES:**  
Geological engineer, geologist.  
  
**EMPLOYMENT INDUSTRIES:**  
Environmental geology , groundwater extraction, mineral and petroleum mining, natural hazards and risk analysis, radioactive waste storage, research and development  
  
**PROFESSIONAL RECOGNITION:**  
Australasian Institute of Mining and Metallurgy.  
  
**PROFESSIONAL MEMBERSHIPS:**  
Australian Institute of Geoscientists, Australasian Institute of Mining and Metallurgy, Geological Society of Australia, International Association of Hydrogeologists, Petroleum Exploration Society of Australia.  
  
**DOUBLE DEGREES AVAILABLE:**  
See page 102.

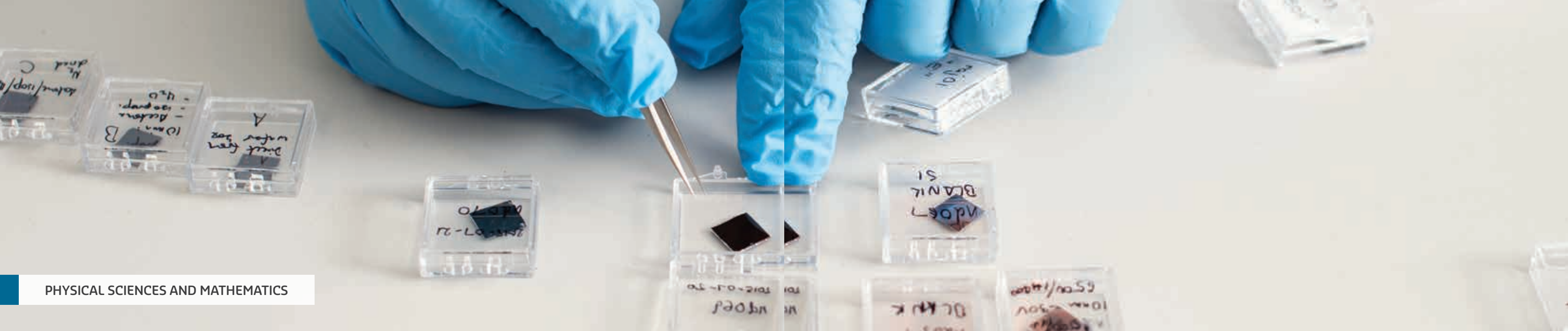
BIOCHEMISTRY

**Degree:** Bachelor of Science (Biochemistry)  
**Faculty:** Science and Engineering  
**Guaranteed 2019 ATAR:** 70  
**Prerequisites:** Mathematics: Applications ATAR and Chemistry ATAR  
**STAT:** Not accepted  
**Study mode:** Full-time, part-time  
**Duration:** 3 years full-time  
**Location:** Perth  
*Note: Portfolio entry is available for this course. See page 104.*

**COURSE DESCRIPTION:**  
Biochemists study the molecular structures and processes that form the foundation for living matter. They draw upon techniques from biology, chemistry and physics, working in an exciting interface between these fields.  
Many of the advances in life sciences rely on an understanding of both chemistry and biology. This course provides a solid foundation in chemistry, based on a molecular-level understanding of biological processes, with second- and third-year units in biological chemistry, medicinal and natural product chemistry. You will take complementary units in cell biology, molecular biology and molecular genetics.  
You will study the core principles of chemistry, molecular structure and chemical reactivity, and how they are applied to biological molecules. You will also investigate molecular systems that regulate cell growth, including signalling and defence, together with related metabolic pathways. You will study principles of molecular recognition, including their applications in biosensors, drug design and optimisation, and in monitoring the effects that exogenous compounds can have on living systems.

You can specialise in one of the following streams:  
**Chemistry**  
In this stream you will explore how an understanding of the molecular world can influence areas such as bionanotechnology, IT and new biocompatible materials. Depending upon 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 will gain first-hand knowledge of how biochemistry and molecular biology are implemented in an environmental setting. You will gain theoretical knowledge and practical skills in a variety of environmental applications of biochemistry, from detection of biochemical signals of pollution to the genetic sequencing of soil microbial systems to assess the impacts of anthropogenic stressors.  
**CAREER OPPORTUNITIES:**  
Biochemist, biotechnologist, forensic scientist, medicinal scientist.  
**EMPLOYMENT INDUSTRIES:**  
Agriculture, biotechnology, healthcare.  
**PROFESSIONAL MEMBERSHIPS:**  
Royal Australian Chemical Institute.





PHYSICAL SCIENCES AND MATHEMATICS

STAT key: V = Verbal; Q = Quantitative; WE = Written English

CHEMISTRY

**Degree:** Bachelor of Science (Chemistry)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** Chemistry ATAR and Mathematics: Applications ATAR

**Desirable:** Mathematics: Methods ATAR and Physics ATAR

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

COURSE DESCRIPTION:

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 many areas such as medicine, IT, nanotechnology, new materials and the environment.

This major trains you to become a skilled chemist. It also teaches you problem solving, teamwork and critical analysis skills, which may open the door for many careers within and outside science. You will study theoretical and practical aspects of chemistry, including synthesis, analysis and molecular modelling. Your learning will be largely laboratory-based, in Curtin’s Resources and Chemistry Precinct.

You can specialise in one of the following streams:

Analytical and Forensic Chemistry

In this stream you will learn how to use sophisticated scientific instrumentation in combination with chemical knowledge to solve complex, real-world analytical problems.

You will develop effective problem-solving and decision-making skills within the ethical and professional context of analytical and forensic science, as there are often regulatory or legislative requirements for chemical measurements to be taken.

Biological Chemistry

In this crossover field of chemistry you will study the essential processes of life on the molecular level. You will use complex equipment and procedures to understand the bio-molecular world, explore applications in biosensors and drug design, and monitor what effects new substances such as food additives and medicines have on living organisms.

As a biological chemist, you could play a part in finding new molecular pathways to understanding, diagnosing, and treating disease through the design, synthesis, and characterisation of new and improved medicines.

Materials Science

This stream examines materials from a unified point of view. It looks for connections between the underlying structure of a material, its properties, how processing changes it and what the material can do.

You will study a range of materials, including metals, semiconductors, glasses, ceramics and polymers. You will also learn about analytical instruments and different forms of radiation that materials scientists use to investigate the microstructure of samples.

CAREER OPPORTUNITIES:

Analytical chemist, computational chemist, environmental chemist, forensic scientist, materials scientist and geochemist, medicinal chemist, synthetic chemist.

EMPLOYMENT INDUSTRIES:

Environment, forensics, health, manufacturing, petrochemical engineering and mining, research and development.

PROFESSIONAL MEMBERSHIPS:

Royal Australian Chemical Institute.

DOUBLE DEGREES AVAILABLE:

See page 102.

FINANCIAL MATHEMATICS

**Degree:** Bachelor of Science (Mathematics)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 80

**Prerequisites:** Mathematics: Methods ATAR

**Desirable:** Mathematics: Specialist ATAR

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

COURSE DESCRIPTION:

Financial mathematicians apply mathematical models and numerical tools to practical everyday applications, such as financial markets. They gather statistical data on the financial decisions people actually make, rather than what they should make. This provides a critical insight for business and government, helping them to make more informed decisions – especially in uncertain economic climates.

This course will provide you with a broad range of analytical and mathematical skills, with particular relevance to statistical modelling and operations research, in a financial context. You will receive a strong grounding in corporate finance, financial institutions, financial markets and various branches of the financial services industry, enhancing your employment prospects in the technological, industrial and commercial sectors. You can select from units in accounting, economics and business.

In your final year, you will undertake a project that will allow you to put your skills into practice. Examples of past projects include forecasting the likelihood of extreme rainfall events, optimising mine site operations and investigating how rumours spread on social networks.

CAREER OPPORTUNITIES:

Commercial banker, finance/funds manager, financial analyst, financial planner, stockbroker, superannuation manager.

EMPLOYMENT INDUSTRIES:

Banking and finance, econometrics, education, government, insurance, investment banking, risk management.

PROFESSIONAL MEMBERSHIPS:

Statistical Society of Australia, Australian Society for Operations Research and the Australian Mathematical Society.

GEOGRAPHIC INFORMATION SCIENCE

**Degree:** Bachelor of Science (Geographic Information Science)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** Mathematics: Applications ATAR

**Desirable:** Mathematics: Methods ATAR

**STAT:** WE and Q

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

COURSE DESCRIPTION:

Geographic information scientists are interested in geographic data. They collect, store and analyse geographic data to uncover spatial patterns, information and trends.

If you have ever used a digital map such as Google Maps or MapQuest or enabled location services on your mobile phone, you have used geographic information science (GIScience).

This technology is the foundation for geographic information systems (GIS), the general term for mapping technologies used by business, government and education. Sophisticated mapping is increasingly applied to population growth, land management, economic development, air and water pollution, business marketing and city planning.

As well as laboratory experience, flexible learning and online education options, you will engage in work-integrated learning activities to experience all facets of the discipline. In your first year you will complete a geographic information science foundation year that provides a solid grounding in this field.

Core studies in geovisualisation, applications of GPS, cartography, web mapping, geospatial analysis and modelling, and remote sensing will provide you with a thorough understanding of the structure, development, application, implementation and management of GIS.

CAREER OPPORTUNITIES:

Geographic database developer/developer, geographic information scientist, geospatial analyst.

EMPLOYMENT INDUSTRIES:

Environment and climate change, government policy and planning, international development.

PROFESSIONAL ACCREDITATION:

Institution of Civil Engineering Surveyors.

PROFESSIONAL MEMBERSHIPS:

Surveying and Spatial Sciences Institute.

DOUBLE DEGREES AVAILABLE:

See page 102.



STAT key: V = Verbal; Q = Quantitative; WE = Written English

## GEOPHYSICS

**Degree:** Bachelor of Science (Geophysics)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** Mathematics: Methods ATAR and Physics ATAR

**Desirable:** Mathematics: Specialist ATAR

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

Geophysicists study the interior of the Earth. They explore for natural resources such as minerals, oil and gas, and groundwater, and address environmental engineering problems from natural hazards to carbon storage.

This highly comprehensive course is the only one of its kind in Western Australia, preparing you for a professional career in exploration geophysics and providing understanding and practical training in a wide range of geophysical exploration methods, including data acquisition, processing and interpretation.

During your studies, you will have hands-on experience using industry-standard equipment and software, while also developing background knowledge in geology, mathematics and physics.

You will gain a thorough grounding in all non-invasive geophysical techniques used in exploration such as seismology, magnetics, gravity, radiometrics, electrical, electromagnetics and ground penetrating radar.

### CAREER OPPORTUNITIES:

Archaeologist, geologist, geophysicist, government geological surveyor, mineral exploration specialist, researcher, teacher.

### EMPLOYMENT INDUSTRIES:

Oil and mineral exploration, state and federal government.

### PROFESSIONAL RECOGNITION:

Australian Society of Exploration Geophysicists, Society of Exploration Geophysicists (US), European Association of Geoscientists and Engineers, and the Australasian Institute of Mining and Metallurgy.

### PROFESSIONAL MEMBERSHIPS:

Geological Society of Australia, Australian Institute of Geoscientists, and the Petroleum Exploration Society of Australia.

### DOUBLE DEGREES AVAILABLE:

See page 102.

## INDUSTRIAL AND APPLIED MATHEMATICS

**Degree:** Bachelor of Science (Mathematics)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 80

**Prerequisites:** Mathematics: Methods ATAR

**Desirable:** Mathematics: Specialist ATAR

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

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. It has been described as the science of patterns, whether found in numbers, space, science, engineering, computers, imaginary abstractions, or elsewhere.

Through abstraction and logical reasoning, mathematics evolved from counting, calculation, measurement, and the systematic study of the shapes and motions of physical objects.

Today, mathematics is used in most fields, including technology, natural science, engineering, medicine, finance and the social sciences, such as sociology and psychology. This course is designed to provide you with skills in mathematics, engineering and computing, and to teach you how to apply these skills to problems arising in business, industry and government.

The course includes units in advanced calculus and linear algebra that provide foundational knowledge, as well as units in modelling and optimisation, network design and analysis, logistics, supply chain networks, transportation networks, computational mathematics, statistics and probability.

Industry-based units and a work experience program will enable you to experience real applications.

As a graduate of this course, you will be well equipped with the tools to address the key problems that need to be solved to improve the efficiency and productivity of business and industry.

### CAREER OPPORTUNITIES:

Data analyst, industrial engineer, information technologist, logistician, statistical analyst, supply chain manager.

### EMPLOYMENT INDUSTRIES:

Engineering, logistics and supply chain networks, risk management.

### PROFESSIONAL MEMBERSHIPS:

Statistical Society of Australia, Australian Society for Operations Research and the Australian Mathematical Society.

## MULTIDISCIPLINARY SCIENCE

**Degree:** Bachelor of Science (Multidisciplinary Science)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** Mathematics: Applications ATAR

**Desirable:** One of the following ATAR science subjects: 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, or Applied Information Technology.

**STAT:** WE, V and Q

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

Some disciplines within this course require additional prerequisites. If do not have these, you can still study this course but the duration may increase to accommodate these.

*Note: Portfolio entry is available for this course. See page 104.*

### COURSE DESCRIPTION:

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 choose and personalise your study plan in consultation with faculty members in the relevant disciplines, while meeting the requirements for a degree in science.

You can combine science disciplines from areas such as agriculture, astronomy, biochemistry, biology, chemistry, computing, environmental geology, geographic information science, mathematics or physics, opening the door to further education or a number of science careers.

Alternatively, you can combine comprehensive 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.

### A PATHWAY TO OTHER DEGREES:

You can use Multidisciplinary Science as a pathway into another science or engineering course.

### Engineering Pathway

For guaranteed entry into an engineering course, you'll need to enrol in the appropriate units, complete a minimum of 100 credits and achieve a semester weighted average of over 65 per cent.

### Medical Radiation Science Pathway

If you require mathematics or physics for entry into Medical Radiation Science, you can enrol in this course and choose the appropriate units. You must complete a minimum of 75 credits. Medical Radiation Science is competitive and there is no guaranteed entry.

### Data Science, Physics and Mathematics Majors

For entry into the Data Science, Physics or Mathematics majors, you'll need to enrol in the appropriate units, complete a minimum of 100 credits and achieve a semester weighted average over 65 per cent.

### CAREER OPPORTUNITIES:

Opportunities exist across a wide spectrum, depending on your choice of units. For example, you could aim to become a professional science writer by combining science units with journalism.

You could also be ideally placed to pursue a career in secondary science education, through the development of a very broad science or mathematics background and the flexibility to include an education minor for a teaching specialisation.

You could also choose to undertake postgraduate study to further expand your career options.





## PHYSICAL SCIENCES AND MATHEMATICS

STAT key: V = Verbal; Q = Quantitative; WE = Written English

### PHYSICS

**Degree:** Bachelor of Science (Physics)  
**Faculty:** Science and Engineering  
**Guaranteed 2019 ATAR:** 80  
**Prerequisites:** Mathematics: Methods ATAR and Physics ATAR  
**Desirable:** Chemistry ATAR and Mathematics: Specialist ATAR  
**STAT:** Not accepted  
**Study mode:** Full-time, part-time  
**Duration:** 3 years full-time  
**Location:** Perth

#### COURSE DESCRIPTION:

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.

Curtin's area of physics and astronomy works closely with the Curtin Institute of Radio Astronomy (CIRA), which is involved in the Square Kilometre Array and the Murchison Widefield Array, as well as the investigation of active galactic nuclei and radio galaxies, transient radio phenomena and pulsars, and the birth of the first stars and galaxies in the Universe.

In this course, you will study a range of real-world problems through observation, measurement and theoretical analysis. You will develop an understanding of the core concepts of physics and gain hands-on skills with complex technical equipment and computers.

You can specialise in one of the following streams:

#### Astrophysics

This stream includes units suitable for those interested in radio astronomy, particularly the Square Kilometre Array. You'll have the chance to grapple with some of the biggest scientific questions, ranging from the origins of the Universe to the nature of 'dark matter' and 'dark energy'.

Curtin's involvement in the International Centre for Radio Astronomy Research (ICRAR) and the Square Kilometre Array project has the potential to provide you with hands-on experience analysing data from cutting-edge radio telescopes, using state-of-the-art supercomputing facilities.

#### Environmental Physics

In this stream you will learn how to study and measure matter and energy in the Earth's natural and managed environments: the atmosphere, hydrosphere (oceans, rivers), land and soils, and living organisms. You will study a diverse range of topics, including the development of sensors and energy-saving 'green' materials, the interaction of sunlight with particulates in the atmosphere and oceans, disposal and storage of radioactive wastes, and the dynamics of the ocean and atmosphere.

This stream includes a strong emphasis on physics principles in an environmental context, applied computer programming, instrument deployment during field excursions, and field and satellite data processing and analysis. It also provides exposure to a number of multidisciplinary activities in fields such as biology, geology and chemistry.

You will have the opportunity to experience applied acoustics first-hand through coursework and projects involving Curtin's Centre for Marine Science and Technology, which specialises in underwater acoustics and has strong linkages to industries such as defence, offshore oil and gas, fisheries and government. For those interested in

underwater optics and related applications or satellite remote sensing of oceans, Curtin's Remote Sensing and Satellite Research Group also provides opportunities for liaison during your study.

#### Materials Science

This stream examines materials from a unified point of view. It looks for connections between the underlying structure of a material, its properties, how processing changes it and what the material can do. You will study a range of materials, including metals, semiconductors, glasses, ceramics and polymers.

You will also learn about analytical instruments and different forms of radiation that materials scientists use to investigate the microstructure of samples. These include electron microscopes, X-ray scattering facilities including synchrotrons, and neutrons generated in a nuclear reactor. Computer simulation is another key technology used by materials scientists and you will learn how to apply it to your work.

#### Mathematical Physics

Mathematical physics is the study of nature using advanced mathematics. This field is advancing in everything from basic physics to quantum mechanics, and on every scale from the quark to the Big Bang.

Through mathematical models and powerful supercomputers, we can predict the progress of climatic changes, the flow of oil reservoirs, development of new materials, and nanotechnology.

A degree in this field prepares you to work as a physicist or mathematician, with experience in using supercomputer technology.

#### CAREER OPPORTUNITIES:

Astrophysicist, computational physicist, environmental physicist, marine physicist, materials analyst, meteorologist, satellite remote-sensing scientist.

#### EMPLOYMENT INDUSTRIES:

Astronomy, defence, education, environmental consultation, finance, manufacturing, software development.

#### PROFESSIONAL MEMBERSHIPS:

Australian Institute of Physics.

#### DOUBLE DEGREES AVAILABLE:

See page 102.

### SURVEYING

**Degree:** Bachelor of Surveying  
**Faculty:** Science and Engineering  
**Guaranteed 2019 ATAR:** 70  
**Prerequisites:** Mathematics: Applications ATAR  
**Desirable:** Mathematics: Methods ATAR  
**STAT:** WE and Q  
**Study mode:** Full-time, part-time  
**Duration:** 4 years full-time  
**Location:** Perth

Those applying on the basis of the Special Tertiary Admissions Test (STAT) may be required to meet prerequisites by completing enabling units. This may extend the course duration.

#### COURSE DESCRIPTION:

Surveying is a highly-specialised, professional discipline which involves measuring the surface of the Earth and its features.

Surveyors use sophisticated technology and scientific principles to provide practical solutions and services to many areas of government and industry, such as land development, construction, resource development, mining and mapping.

Surveyors have played a crucial role in the development of Australia since settlement, and will continue to do so.

In this course you can study specialist areas such as cadastral surveying, geodesy, photogrammetry, engineering surveying and land information systems, as well as related areas such as remote sensing, land development and planning, mine surveying and hydrographic surveying.

This discipline has also moved into several high-tech areas including satellite positioning, laser scanning, airborne and marine navigation, digital mapping and remote sensing, specialised alignment surveying, analysis of structural deformations, and land and environmental management. Studying modern surveying calls upon elements from such diverse disciplines as computing, engineering,

environmental science, geography, geology, management, mathematics and physics.

Curtin offers the only comprehensive degree program in surveying in Western Australia. The fourth year of the course incorporates an honours program which can lead directly into the Master of Philosophy (Surveying and Mapping) and the Doctor of Philosophy.

#### CAREER OPPORTUNITIES:

Engineering surveyor, hydrographic surveyor, land surveyor, mine surveyor.

#### EMPLOYMENT INDUSTRIES:

Local, state and federal government, private practice.

#### PROFESSIONAL MEMBERSHIPS:

Surveying and Spatial Sciences Institute.

#### PROFESSIONAL ACCREDITATION:

Royal Institution of Chartered Surveyors and the Chartered Institution of Civil Engineering Surveyors.



### SKY'S THE LIMIT

Curtin's involvement in the International Centre for Radio Astronomy Research (ICRAR) and the Square Kilometre Array project has the unique potential to provide you with an understanding of advanced instrumentation for astrophysics.



# HEALTH

STAT key: V = Verbal; Q = Quantitative; WE = Written English

## COURSES

- Exercise, Sports and Rehabilitation Science
- Health Promotion
- Health Promotion and Health and Safety
- Health, Safety and Environment
- Health Sciences major
- Human Biology Preclinical
  - Optometry pathway
- Laboratory Medicine
- Medical Radiation Science
  - Medical Imaging major
  - Radiation Therapy major
- Medicine
- Molecular Genetics and Biotechnology
- Nursing
- Nursing (Conversion Program for Registered Nurses)
- Nursing (Enrolled Nurse to Registered Nurse stream)
- Nutrition and Food Science
- Nutrition and Health Promotion
- Occupational Therapy (Honours)
- Oral Health Therapy
- Paramedicine
- Pharmacy (Honours)
- Physiotherapy
- Psychology
- Psychology and Human Resource Management
- Psychology and Human Resource Management and Industrial Relations
- Law and Psychology
- Psychology and Marketing
- Social Work
- Speech Pathology

If you're passionate about becoming part of the next generation of healthcare professionals who innovate, inspire, heal and positively impact the health of the local and global community, Curtin offers a range of reputable courses that can lead you to a healthy career.

From nursing, paramedicine and oral health therapy, to medicine, physiotherapy, social work and psychology, just to name a few, you'll not only have access to courses recognised by industry, but also state-of-art facilities, outstanding teaching quality and vibrant campus life.



## ADDITIONAL REQUIREMENTS

Some courses in this section may require you to have one or more of the following:

- criminal record screening
- clinical health sciences screening
- current first aid certificate
- Working with Children Check.

## EXERCISE, SPORTS AND REHABILITATION SCIENCE

**Degree:** Bachelor of Science (Exercise, Sports and Rehabilitation Science)

**Faculty:** Health Sciences

**Minimum 2019 ATAR:** 70

**Prerequisites:** Before starting year 2, you must hold a Senior First Aid Certificate (or equivalent).

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

**STAT:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

Work with individuals, teams and other groups to assess physical abilities and design and implement exercise and training programs.

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

The course emphasises client-centred practice to help you develop strong interpersonal communication, critical thinking and problem-solving skills.

In your first year you will 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 sports science and undertake laboratory and field work.

Curtin has partnerships with the Fremantle Football Club and Hockey Australia, meaning you could find yourself working alongside some of Australia's top athletes through practicum placement or research.

### CAREER OPPORTUNITIES:

Coach, gym instructor, health and exercise consultant, personal trainer, strength and conditioning coach.

### PROFESSIONAL ACCREDITATION:

Exercise and Sports Science Australia.

## HEALTH PROMOTION

**Degree:** Bachelor of Science (Health Promotion)

**Faculty:** Health Sciences

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** None

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

**STAT:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

Help individuals, groups and communities improve their health and make the healthy choice an easy choice.

This course is designed to equip you with the theoretical and practical skills required for a career in health promotion. You will learn how to identify the health needs of individuals, groups and communities, develop people's skills and knowledge in health, advocate for policies and laws that support healthy choices and plan, implement and evaluate health promotion activities.

In your first year you will learn the foundations of health promotion and study interprofessional core units with students from other health disciplines.

In your second and third years you will specialise in health promotion. You will also have the opportunity to undertake an on-campus health promotion campaign and a 100-hour professional placement in a health promotion organisation.

### CAREER OPPORTUNITIES:

Community health development officer, health promotion officer, policy officer, project officer, research officer,

### EMPLOYMENT INDUSTRIES:

Act-Belong-Commit (Mentally Healthy WA), Cancer Council WA, Department of Health, Diabetes WA, Heart Foundation, Injury Control Council of WA, WA AIDS Council.

### PROFESSIONAL ACCREDITATION:

International Union for Health Promotion and Education.

### PROFESSIONAL MEMBERSHIPS:

Australian Health Promotion Association, Public Health Association of Australia.

### DOUBLE DEGREES AVAILABLE:

See page 102.





HEALTH

STAT key: V = Verbal; Q = Quantitative; WE = Written English

HEALTH PROMOTION AND HEALTH AND SAFETY

**Degree:** Bachelor of Science (Health Promotion and Health and Safety)  
**Faculty:** Health Sciences  
**Guaranteed 2019 ATAR:** 70  
**Prerequisites:** None  
**Desirable:** At least one ATAR science course from the following list: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics or Psychology.  
**STAT:** WE and either V or Q  
**Study mode:** Full-time, part-time  
**Duration:** 4 years full-time  
**Location:** Perth, online

**COURSE DESCRIPTION:**  
Work to assess, manage and prevent injury and disease within the workplace and in the broader community.  
  
This double degree course is designed to develop your expertise in both health promotion and occupational health and safety. As a graduate, you may choose to work within either discipline over your career, however, due to the course’s unique integration of the two, you may pursue a career that combines both.  
  
Your first year is interprofessional and taken with other health sciences students. In the following years, you will specialise in the areas of health promotion and health and safety. You will learn how to promote health by developing people’s skills and knowledge, strengthening the ability of people to plan and undertake action to achieve better health, creating healthy environments and changing policies and laws to support healthy choices.

The occupational health and safety component will equip you with skills to contribute proactively to risk management and assessment, and the prevention of injuries and disease in the workplace.  
  
You will participate in an on-campus health promotion campaign, undertake a 100-hour professional placement in workplace health promotion, and complete 200 hours of placements in health and safety. Fieldwork visits will also give you the chance to see health and safety in action.

**CAREER OPPORTUNITIES:**  
Health promotion officer, occupational health and safety officer, workplace wellness coordinator.  
  
**EMPLOYMENT INDUSTRIES:**  
Health and safety public and private industries, local government, professional, scientific and technical services, public administration and safety.

**PROFESSIONAL ACCREDITATION:**  
Australian Occupational Health and Safety Education Accreditation Board (Safety Institute of Australia).  
  
**PROFESSIONAL MEMBERSHIPS:**  
Australian Health Promotion Association, Australian Institute of Occupational Hygienists, Public Health Association of Australia, Safety Institute of Australia.  
  
**PROFESSIONAL RECOGNITION:**  
Australian Health Promotion Association, Public Health Association of Australia, Safety Institute of Australia.

HEALTH, SAFETY AND ENVIRONMENT

**Degree:** Bachelor of Science (Health, Safety and Environment)  
**Faculty:** Health Sciences  
**Guaranteed 2019 ATAR:** 70  
**Prerequisites:** None  
**Desirable:** 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:** WE and either V or Q  
**Study mode:** Full-time, part-time  
**Duration:** 3 years full-time  
**Location:** Perth, online

**COURSE DESCRIPTION:**  
Specialise in identifying and managing workplace risks to ensure a safe and healthy work environment.  
  
This course is designed to prepare you for employment in the expanding area of occupational health and safety. In this course you will develop the skills to create, maintain and manage a safe and healthy workplace. The course has a strong science base to help you develop professional skills in critical thinking, information literacy and technology.  
  
Your first year is interprofessional and undertaken in collaboration with other health sciences students.  
  
In your second and third years you will learn how to identify and manage risks and hazards, effectively participate in decision-making processes and improve safety and health 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.

**CAREER OPPORTUNITIES:**  
Health and safety or environment professional, occupational health and safety officer, workplace rehabilitation officer.  
  
**EMPLOYMENT INDUSTRIES:**  
Health, safety and environment public and private industries, local government, professional, scientific and technical services, public administration and safety.

**PROFESSIONAL ACCREDITATION:**  
Australian Occupational Health and Safety Education Accreditation Board (Safety Institute of Australia), Institute of Occupational Safety and Health (UK).  
  
**PROFESSIONAL MEMBERSHIPS:**  
Australian Institute of Occupational Hygienists, Institute of Occupational Safety and Health (UK), Safety Institute of Australia.  
  
**DOUBLE DEGREES AVAILABLE:**  
See page 102.

► **HEALTH SCIENCES MAJOR**  
**Degree:** Bachelor of Science (Health Sciences)  
**Faculty:** Health Sciences  
**Guaranteed 2019 ATAR:** 70  
**Prerequisites:** None  
**Desirable:** 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:** WE and either V or Q  
**Study mode:** Full-time, part-time  
**Duration:** 3 years full-time  
**Location:** Perth  
  
**COURSE DESCRIPTION:**  
This multidisciplinary course gives you a solid grounding in public health. You can use the degree to work in the area of public health or as a pathway into other health degrees, such as speech pathology, pharmacy, physiotherapy and occupational therapy.

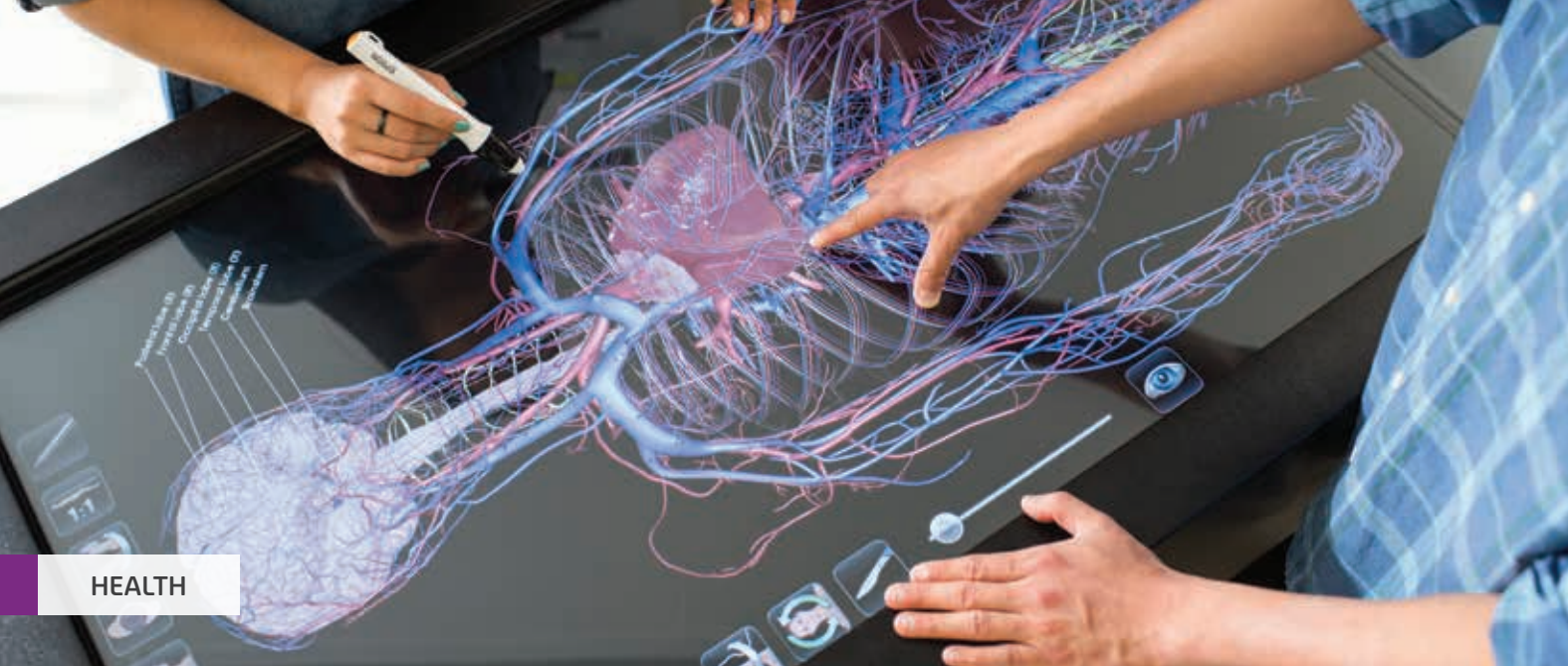
Public health practitioners work to achieve better health through the prevention of disease and disability. Rather than working with individual clients, public health practitioners work at the community or whole population level.  
  
They pay special attention to how social, economic and environmental factors affect health and wellbeing.  
  
Your first year is interprofessional and undertaken in collaboration with other health sciences students.  
  
Optional units allow you to pursue your interests in other health areas or choose one subject for in-depth learning.

**CAREER OPPORTUNITIES:**  
Epidemiologist, health promotion officer, life scientist, public health professional, research officer.  
  
**PROFESSIONAL MEMBERSHIPS:**  
Australasian Epidemiological Association, Public Health Association of Australia.



The Faculty of Health Sciences educates more health professionals than any other WA tertiary institution.





## HEALTH

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### HUMAN BIOLOGY PRECLINICAL

**Degree:** Bachelor of Science (Human Biology Preclinical)

**Faculty:** Health Sciences

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** None

**Desirable:** Chemistry ATAR, Mathematics: Methods ATAR and Human Biology ATAR or Biology ATAR.

**STAT:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

#### COURSE DESCRIPTION:

Fascinated by the human body? Want to know more about human anatomy and physiology? Become a highly-skilled scientist at the threshold of many different health careers.

If you are seeking a career in allied health, but are not yet ready to commit to a particular profession, this course is an ideal stepping-stone to other courses and careers, such as optometry, occupational therapy, medicine, pharmacy, physiotherapy and paramedicine.

This course delivers integrated studies in human biology, emphasising applied human structure and function. Your first year is interprofessional and taken with students from other health sciences degrees.

The second year is designed to give you in-depth knowledge in selected subject areas, particularly in anatomy and physiology, and is combined with extensive laboratory-based learning. In your third year you can apply your learning to explore areas of current research in human biology and the life sciences.

### OPTOMETRY PATHWAY

If you are interested in optometry, Curtin offers a pathway course that can allow you to study the first year of the Human Biology Preclinical degree in Perth for 12 months, before travelling to Adelaide, South Australia, to study the Bachelor of Medical Science (Vision Science)/Master of Optometry double degree at Flinders University for four years.

In this course you will receive a grounding in the fundamentals of science with a specialisation in vision science. You will study the visual system and factors that influence sight and be prepared for intensive study and clinical experience in optometry.

Entry to this course is competitive and a high course-weighted average is required.

#### OPTOMETRY ADMISSION CRITERIA

**Minimum 2019 ATAR:** 90

**Location:** Year 1: Perth, Years 2-5: Adelaide

**Duration<sup>\*</sup>:** 5 years full-time

**Study mode:** Full-time

**Intake:** Feb

**STAT:** N/A

**Prerequisites:** None

**Desirable:** Chemistry ATAR, Mathematics: Methods ATAR and Human Biology ATAR or Biology ATAR

<sup>\*</sup>Human Biology Preclinical (Curtin) = 1 year  
Bachelor of Medical Science (Vision Science) (Flinders) = 2 years  
Master of Optometry (Flinders) = 2 years

#### CAREER OPPORTUNITIES:

Anatomist, clinical technician, human biologist, laboratory technician, life scientist, physiologist, research scientist.

With further study: doctor, occupational therapist, pharmacist, physiotherapist, speech pathologist, optometrist.

### LABORATORY MEDICINE

**Degree:** Bachelor of Science (Laboratory Medicine)

**Faculty:** Health Sciences

**Minimum 2019 ATAR:** 73

**Prerequisites:** None

**Desirable:** Chemistry ATAR, Mathematics: Applications ATAR and Human Biology ATAR or Biology ATAR

**STAT:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 4 years full-time

**Location:** Perth

#### COURSE DESCRIPTION:

Laboratory medicine teaches you about pathology (the origin, nature and course of disease) and the diagnosis of disease.

If you're seeking a challenging career as a professional medical scientist, this course offers exciting opportunities.

Your first year is interprofessional and taken with students from other health sciences degrees.

The second year expands your knowledge of the cellular and tissue aspects of pathology and the individual disciplines of laboratory medicine.

In your third and fourth years you gain extensive field experience and focus on three of the following major disciplines: clinical biochemistry, diagnostic cytology, haematology and blood transfusion science, histopathology, immunology, and medical microbiology.

#### CAREER OPPORTUNITIES:

Hospital scientist, laboratory worker, medical laboratory scientist or technician.

#### PROFESSIONAL RECOGNITION:

Australian Institute of Medical Scientists.

### MEDICAL RADIATION SCIENCE

**Degree:** Bachelor of Science (Medical Radiation Science)

**Faculty:** Science and Engineering

**Guaranteed 2019 ATAR:** 90

**Prerequisites:** Mathematics: Methods ATAR and Physics ATAR, or equivalent

**Desirable:** Mathematics: Specialist ATAR, or equivalent

**STAT:** Not accepted

**Study mode:** Full-time

**Duration:** 4 years full-time

**Location:** Perth

#### COURSE DESCRIPTION:

Medical radiation scientists use radiation on the human body to help diagnose, treat and monitor medical conditions or provide cancer therapy.

Curtin offers the only on-campus course in medical radiation science in Western Australia. This course allows you to specialise in one of two majors: Medical Imaging or Radiation Therapy.

This course combines subjects from health sciences and science, providing you with a general grounding in the healthcare environment, along with foundation studies required for medical radiation science practice including medical physics, anatomy and physiology, and evidence-based practice.

The first year is interprofessional and taken with other health science and science students. From the second year, your study will focus on your elected major.

You will be prepared to accept responsibility for the care of individual patients by developing the necessary ethical, medico-legal, cultural awareness and communication abilities. These skills will enable you to establish appropriate interpersonal relationships with patients and colleagues so that you can work effectively and sensitively as a healthcare professional.

You will gain essential fieldwork experience throughout the course, including extensive clinical experience in hospitals and private practices, and one rural clinical placement

#### ► MEDICAL IMAGING MAJOR

**Degree:** Bachelor of Science (Medical Radiation Science)

#### COURSE DESCRIPTION:

Medical imaging professionals work with a range of 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.

#### CAREER OPPORTUNITIES:

Medical imaging professional.

#### EMPLOYMENT INDUSTRIES:

Biophysics, equipment manufacturing, medical physics, private medical clinics, public, private and regional hospitals, radiation health, research and development.

#### PROFESSIONAL ACCREDITATION:

This major is currently awaiting accreditation from the Medical Radiation Practice Board of Australia.

#### ► RADIATION THERAPY MAJOR

**Degree:** Bachelor of Science (Medical Radiation Science)

#### COURSE DESCRIPTION:

Radiation therapists play an integral role in the treatment, care and management of patients undergoing radiation therapy treatment, primarily in treating a range of cancer types. They design, develop and deliver radiation therapy treatment, using a range of complex technologies and equipment.

#### CAREER OPPORTUNITIES:

Radiation therapist.

#### EMPLOYMENT INDUSTRIES:

Biophysics, equipment manufacturing, medical physics, private medical clinics, public, private and regional hospitals, radiation health, research and development.

#### PROFESSIONAL ACCREDITATION:

This major is currently awaiting accreditation from the Medical Radiation Practice Board of Australia.



STAT key: V = Verbal; Q = Quantitative; WE = Written English

## MEDICINE

**Degree:** Bachelor of Medicine / Bachelor of Surgery

**Faculty:** Health Sciences

**Minimum 2019 ATAR:** 95

**Prerequisites:** Chemistry ATAR. You will be required to undertake the Undergraduate Medicine and Health Sciences Admission Test (UMAT) the year before you intend to start studying.

**Desirable:** Mathematics: Methods ATAR, Mathematics: Specialist ATAR or Mathematics: Applications ATAR

**STAT:** Not accepted

**Study mode:** Full-time

**Duration:** 5 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

Work as part of an interprofessional healthcare team to provide primary healthcare services to the community.

This course can lead to many careers in the medical profession. Your studies will focus on primary care, chronic conditions, aged care, mental health, Indigenous health, biomedical and clinical sciences and population health, as well as acute care.

Your first year of the course is interprofessional and undertaken with other health sciences students. You will also complete discipline-based units in medicine and be introduced to clinical practice.

Your second and third years will be devoted to a more intensive study of medicine that focuses on the structure and function of the human body in health and disease.

Fourth year is a transition from the Curtin campus into clinical settings where you will work with people of all age groups under clinical supervision in hospital and community settings, including rural and remote healthcare places.

Your final year will be entirely in clinical settings where you will work as a member of a healthcare team in preparation for your internship once you graduate.

[curtin.edu/hs-medicine-entry](http://curtin.edu/hs-medicine-entry)

### CAREER OPPORTUNITIES:

Doctor.

Doctors may specialise in a diverse range of fields, such as general practice, pathology, management consulting and pharmaceutical research. You make the choice, but what the community needs most are doctors working in medically underserved areas such as rural health, mental health or aged care.

### PROFESSIONAL ACCREDITATION:

Australian Medical Council.

## MOLECULAR GENETICS AND BIOTECHNOLOGY

**Degree:** Bachelor of Science (Molecular Genetics and Biotechnology)

**Faculty:** Health Sciences

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** None

**Desirable:** Chemistry ATAR and Mathematics: Methods ATAR and Human Biology ATAR or Biology ATAR

**STAT:** WE and either V or Q

**Study mode:** Full-time

**Duration:** 3 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

Learn about genetics and biotechnology and how they are improving health outcomes, boosting agricultural productivity and industrial processes, and enhancing environmental sustainability.

In this course you will develop the knowledge and technical skills you need to contribute to many applications of molecular genetics and biotechnology.

Your first year is interprofessional and will provide a general introduction to biomedical science and other supporting disciplines.

Starting from second year, your study will expand to include genetics, biochemistry, microbiology and immunology, and you will be introduced to cutting-edge technology for molecular and genetic analyses.

You will also explore the legal, social and ethical implications raised by the advent of molecular biotechnology, issues surrounding intellectual property and patents, and commercial opportunities relevant to the biotechnology industry in Australia and surrounding regions.

### CAREER OPPORTUNITIES:

Biochemist, biotechnologist, forensic scientist, molecular biologist, molecular geneticist.

### PROFESSIONAL MEMBERSHIPS:

AusBiotech.

## NURSING

**Degree:** Bachelor of Science (Nursing)

**Faculty:** Health Sciences

**Minimum 2019 ATAR:** 70

**Prerequisites:** None

**Desirable:** Human Biology ATAR and Integrated Science ATAR

**STAT:** WE and V

**Study mode:** Full-time, part-time

**Duration:** 3.5 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

Become a registered nurse and give comprehensive care to patients in a variety of settings.

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.

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
- Registered Nurse Conversion – Australian Registration Nurse Stream
- Registered Nurse Conversion – Non-Registration Nurse Stream.

### CAREER OPPORTUNITIES:

Registered nurse. Opportunities exist within nursing in clinical, education, research and management areas.

### EMPLOYMENT INDUSTRIES:

Community and home based services, nursing homes, public and private hospitals.

### PROFESSIONAL RECOGNITION:

Upon graduating you can apply for registration to become a Registered Nurse (Division 1) with the Nursing and Midwifery Board Australia.

## NURSING (CONVERSION PROGRAM FOR REGISTERED NURSES)

**Degree:** Bachelor of Science (Nursing)

**Faculty:** Health Sciences

**Minimum 2019 ATAR:** N/A

**Prerequisites:** Applicants must hold a recognised three-year Australian Qualification Framework Diploma (or equivalent).

**Desirable:** None

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 1 year full-time

**Location:** Perth

### COURSE DESCRIPTION:

This course is for registered nurses whose Australian registration has lapsed.

This course offers two streams:

- Australian Registration Nurse Stream
- Non-Registration Nurse Stream.

This course is designed to build on your professional knowledge and experience as a registered nurse and enhance your capability as a member of an interprofessional team in a changing healthcare system.

You will study research, evidence informed practice, and the biological and behavioural sciences that underlie nursing. You will be encouraged to problem solve and identify and assess the needs of individuals and families.

The course can also help you establish a basis for future postgraduate study, specialisation and research.

### CAREER OPPORTUNITIES:

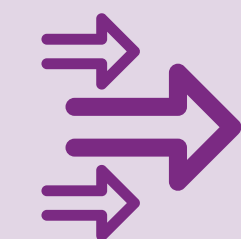
Registered nurse. Opportunities exist within nursing in clinical, education, research and management areas.

### EMPLOYMENT INDUSTRIES:

Community and home based services, nursing homes, public and private hospitals.

### PROFESSIONAL RECOGNITION:

Upon graduating from the Australian Registration Nurse Stream you can become a Registered Nurse (Division 1) with the Nursing and Midwifery Board Australia.



### Fast-track your career

Curtin's Bachelor of Medicine / Bachelor of Surgery is the only five-year undergraduate entry program in Western Australia.





HEALTH



STAT key: V = Verbal; Q = Quantitative; WE = Written English

NURSING (ENROLLED NURSE TO REGISTERED NURSE)

**Degree:** Bachelor of Science (Nursing)  
**Faculty:** Health Sciences  
**Minimum 2019 ATAR:** N/A  
**Prerequisites:** You must have completed the Diploma of Enrolled Nursing and be currently registered with the Nursing and Midwifery Board of Australia.  
**STAT:** Not accepted  
**Study mode:** Full-time, part-time  
**Duration:** 2.5 years full-time  
**Location:** Perth

COURSE DESCRIPTION:

Turn your Enrolled Nurse (Division 2) qualification into a Registered Nurse (Division 1) that is recognised by the Nursing and Midwifery Board of Australia.

This course includes biological, behavioural and nursing sciences, and is organised around the study of individuals within families and the community.

Your learning will involve interprofessional education, giving you the opportunity to study with different nursing and medical specialists from a range of fields. This will encourage you to be an active, contributing member of an interprofessional healthcare team.

CAREER OPPORTUNITIES:

Registered nurse. Opportunities exist within nursing in clinical, education, research and management areas.

EMPLOYMENT INDUSTRIES:

Community and home based services, nursing homes, public and private hospitals.

PROFESSIONAL RECOGNITION:

Upon graduating you can become a Registered Nurse (Division 1) with the Nursing and Midwifery Board Australia.

NUTRITION AND FOOD SCIENCE

**Degree:** Bachelor of Science (Nutrition and Food Science)  
**Faculty:** Health Sciences  
**Guaranteed 2019 ATAR:** 70  
**Prerequisites:** Chemistry ATAR  
**Desirable:** Mathematics: Applications ATAR  
**STAT:** WE and either V or Q  
**Study mode:** Full-time, part-time  
**Duration:** 3 years full-time  
**Location:** Perth

COURSE DESCRIPTION:

Learn about the science of nutrition and how to promote healthy diet behaviours to improve the nutritional status of populations.

This science-based course provides you with high-level communication and teamwork skills.

Your first year will be interprofessional and taken with other health sciences students.

Your second year builds on this foundation and you will study sciences such as biochemistry and physiology in order to understand how the human body uses nutrients from foods to sustain life. You will have the opportunity to participate in off-campus nutrition education sessions.

In the second year of the course you will choose between two streams: Nutrition and Food Science.

Nutrition

This stream further develops your understanding of the evidence of associations between diet and health outcomes, and you will explore the social and cultural influences that impact dietary decisions within the population.

You will also conduct a nutrition research project. Graduate nutritionists typically undertake further study to specialise in a professional area, including dietetics, research, food science and technology, health promotion or teaching.

Food Science

This stream focuses on the nature and chemical composition of foods, ingredient behaviour under different processing conditions, and the application of this knowledge of food science to improve the safety and quality of food.

Nutrition and food scientists are also involved in the research and development of new food products and new technologies in the processing of foods. You will undertake a work placement with an external organisation which may be a government, research of food industry organisation.

CAREER OPPORTUNITIES:

Home economist, food technologist, nutritionist.

PROFESSIONAL MEMBERSHIPS:

Graduates from the Nutrition stream will be eligible to apply for membership to the Public Health Association of Australia and as an Associate Nutritionist with the Nutrition Society of Australia.

Graduates of the Food Science stream will be eligible to apply for professional membership of the Australian Institute of Food Science and Technology.

NUTRITION AND HEALTH PROMOTION

**Degree:** Bachelor of Science (Nutrition and Health Promotion)  
**Faculty:** Health Sciences  
**Guaranteed 2019 ATAR:** 70  
**Prerequisites:** Chemistry ATAR  
**Desirable:** At least Mathematics: Applications ATAR  
**STAT:** WE and either V or Q  
**Study mode:** Full-time, part-time  
**Duration:** 4 years full-time  
**Location:** Perth

COURSE DESCRIPTION:

Promote and improve healthy food choices by working with and educating the community.

This course is designed to equip you with the theoretical and practical skills required for a career in public health nutrition. You will learn how to identify the health and nutritional needs of individuals, groups and communities, develop people's skills and knowledge in health and nutrition, advocate for policies and laws that support healthy choices and plan, implement and evaluate health promotion and public health nutrition activities.

In your first year you will learn the foundations of health promotion and nutrition, and study interprofessional core units with students from other health disciplines.

In your second, third and fourth years you will specialise in health promotion and nutrition. You will also undertake an on-campus health promotion campaign, provide a school-based nutrition education session and complete a 100-hour professional public health nutrition placement in a public health/health promotion organisation.

CAREER OPPORTUNITIES:

Community health development officer, food technologist, health promotion officer, home economist, nutritionist, policy officer, project officer, research officer.

PROFESSIONAL MEMBERSHIPS:

Associate Nutritionist with the Nutrition Society of Australia, Australian Health Promotion Association.

OCCUPATIONAL THERAPY

**Degree:** Bachelor of Science (Occupational Therapy) (Honours)  
**Faculty:** Health Sciences  
**Minimum 2019 ATAR:** 83  
**Prerequisites:** At least one ATAR science course from the following list: Biology, Chemistry, Earth and Environmental Science, Human Biology, Integrated Science, Physics or Psychology.  
**Desirable:** None  
**STAT:** Not accepted  
**Study mode:** Full-time  
**Duration:** 4 years full-time  
**Location:** Perth

COURSE DESCRIPTION:

As an occupational therapist, you'll work with people of all ages who may have experienced injury, illness or disability. You can help people engage in occupations or activities that are meaningful to them and achieve independence, 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 will 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. Fieldwork placements will complement your studies and help you to integrate the essential skills needed for individual, family and community practice

CAREER OPPORTUNITIES:

Health administrator, local area coordinator, mental health rehabilitation practitioner, occupational therapist, rehabilitation consultant.

PROFESSIONAL RECOGNITION:

Occupational Therapy Board of Australia.

PROFESSIONAL MEMBERSHIPS:

Occupational Therapy Australia, WA Occupational Therapy Association.



STAT key: V = Verbal; Q = Quantitative; WE = Written English

## ORAL HEALTH THERAPY

**Degree:** Bachelor of Science (Oral Health Therapy)

**Faculty:** Health Sciences

**Minimum 2019 ATAR:** 83

**Prerequisites:** Applicants are required to undertake an interview prior to selection.

**Desirable:** Human Biology ATAR or Biology ATAR

**STAT:** WE and either V or Q

**Study mode:** Full-time

**Duration:** 3 years full-time

**Location:** Perth, Nedlands

### COURSE DESCRIPTION:

Promote oral health in the community and provide a range of clinical dental services, including fillings and simple extractions for children, dental radiography, and scaling and cleaning.

The 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 you will further develop your knowledge and your studies will combine theory, practical sessions and clinical practice. Clinical practice starts in your second year and continues throughout your third year.

Places in this program are limited. Selection is based on a combination of academic performance and interview. Interviews can be completed by distance if required and are normally held in December and early January.

### CAREER OPPORTUNITIES:

Dental hygienist, dental therapist.

### EMPLOYMENT INDUSTRIES:

Government, private and specialist dental practices.

### PROFESSIONAL RECOGNITION:

Dental Board of Australia.

## PARAMEDICINE

**Degree:** Bachelor of Science (Paramedicine)

**Faculty:** Health Sciences

**Minimum 2019 ATAR:** 70

**Prerequisites:** This course requires a conditional letter of employment from St John Ambulance WA to be a student ambulance officer.

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

**STAT:** WE and either V or Q

**Study mode:** Full-time

**Duration:** 3 years full-time

**Location:** Perth

*IMPORTANT: If you wish to study this course, you must have a provisional offer from St John Ambulance WA before you can apply. For further information please refer to St John Ambulance WA website at [stjohnnchangelives.com.au](http://stjohnnchangelives.com.au).*



### TOUGH STUFF

Did you know enamel is the hardest substance in the human body?

### COURSE DESCRIPTION:

Do you want to be on the front line of pre-hospital care? Paramedics are emergency care specialists whose job requires them to perform under pressure working in the pre-hospital setting. While working towards your degree, you will become a student ambulance officer and then an ambulance officer. You will need an unrestricted driving licence to apply.

This course addresses the changing healthcare environment with an interprofessional health focus and specialised fieldwork experience.

Your first year includes units from the interprofessional program, which are taken with other health science students, as well as core subject specific units.

Your second year involves paramedic-specific units and you will become a student ambulance officer with St John Ambulance (WA) while continuing your study with Curtin.

To complete the three-year program, you must meet all academic and on-road practical requirements and maintain employment with St John Ambulance (WA) as an ambulance officer. You will graduate as a degree-qualified paramedic.

### CAREER OPPORTUNITIES:

Paramedic.

### PROFESSIONAL ACCREDITATION:

This program is provisionally accredited by the Council of Ambulance Authorities.

Paramedics are required to register with the Australian Health Practitioner Regulation Agency (AHPRA).

## PHARMACY

**Degree:** Bachelor of Pharmacy (Honours)

**Faculty:** Health Sciences

**Minimum 2019 ATAR:** 80

**Prerequisites:** Chemistry ATAR and Mathematics: Applications ATAR

**Desirable:** Human Biology ATAR or Biology ATAR

**STAT:** Not accepted

**Study mode:** Full-time

**Duration:** 4 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

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, integrated pharmacology and therapeutics. You will also continue to develop your pharmacy practice skills.

You will complete a minimum of 12 weeks of clinical placements or fieldwork during the course, and there are opportunities for you to take your placements interstate and overseas in hospitals, the community or in industry.

### CAREER OPPORTUNITIES:

Community pharmacist, consultant pharmacist, drug information pharmacist, hospital pharmacist, industrial pharmacist, retail pharmacist.

### PROFESSIONAL ACCREDITATION:

Accredited by the Australian Pharmacy Council and is the only accredited undergraduate pharmacy course in Western Australia.

### PROFESSIONAL REGISTRATION:

After completing your degree, you will need to complete an internship of 1,824 hours (approximately one year full-time) before you can apply to register as a pharmacist with the Australian Health Practitioner Regulation Agency (AHPRA).

### PROFESSIONAL RECOGNITION:

This degree is recognised worldwide, although in some countries you may have to do additional training.

## PHYSIOTHERAPY

**Degree:** Bachelor of Science (Physiotherapy)

**Faculty:** Health Sciences

**Minimum 2019 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.

**Desirable:** At least Mathematics: Applications ATAR. Physical education studies does not qualify as an ATAR science prerequisite.

**STAT:** Not accepted

**Study mode:** Full-time

**Duration:** 4 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

Investigate the physical, structural and physiological aspects of the human form and movement. You will learn to prevent, diagnose, treat and rehabilitate injuries and disabilities using hands-on treatment, prescriptive exercise and lifestyle advice.

In this course, you will undertake a combination of theoretical, practical and clinical subjects.

Your first year of the course is interprofessional and is taken with other health sciences students. You will learn foundational skills critical to physiotherapy.

The following years will be devoted to a more intensive study of the musculoskeletal, neurological and cardiopulmonary areas.

You will develop practical skills in laboratory classes and under clinical supervision at hospitals and community settings. You will become familiar with acute and long-term case management, and may take placements in rural and remote healthcare settings.

### CAREER OPPORTUNITIES:

Physiotherapist. Advisor or consultant in educational, industrial or government institutions.

### EMPLOYMENT INDUSTRIES:

Health management, hospitals, local community practice, long-term rehabilitation centres, nursing homes, research, schools, sports organisations.

### PROFESSIONAL RECOGNITION:

On graduating you are eligible to apply for registration with the Physiotherapy Board of Australia and membership of the Australian Physiotherapy Association.

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.

### PROFESSIONAL MEMBERSHIPS:

Australian Health Practitioner Regulation Agency (AHPRA), Australian Physiotherapy Association.



STAT key: V = Verbal; Q = Quantitative; WE = Written English

## PSYCHOLOGY

**Degree:** Bachelor of Psychology

**Faculty:** Health Sciences

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** None

**Desirable:** 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:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 4 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

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.

The first year of this course is interprofessional and taken with other health sciences students.

In your second year you will gain greater knowledge in learning and motivation, perception, child development and social psychology.

In your third year you will prepare a research proposal and develop advanced knowledge in abnormal psychology, cognition, individual differences, cross-cultural and Indigenous psychology, community psychology and adult development.

The fourth year includes a year-long research project along with the development of skills in areas such as program evaluation, psychological assessment and professional practice.

*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. High achieving students may be offered a place in the honours program in fourth year. If you do not attain the credit average required for fourth year you will graduate at the end of third year with the intermediate award: Bachelor of Science (Psychology).*

### CAREER OPPORTUNITIES:

Clinical psychologist, drug and alcohol counsellor, educational psychologist, organisational, industrial or occupational psychologist.

To work as a registered clinical or counselling psychologist you must complete further postgraduate study and/or an internship.

### PROFESSIONAL ACCREDITATION:

Australian Psychology Accreditation Council.

### PROFESSIONAL MEMBERSHIPS:

Graduates of this four-year program are eligible to apply for associate membership to the Australian Psychological Society and provisional registration with the Psychologists Board of Australia.

*Note: For full registration with the Psychology Board of Australia, you must complete a further two years of skills-based training. There are three training options available:*

1. *a two-year provisional psychologist internship (supervised work)*
2. *a one-year accredited Master of Psychology program and one-year provisional psychologist internship (supervised work)*
3. *an accredited two-year Master of Psychology program.*

## PSYCHOLOGY AND HUMAN RESOURCE MANAGEMENT

**Degree:** Bachelor of Science (Psychology and Human Resource Management)

**Faculty:** Health Sciences

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** None

**Desirable:** 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:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 4 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

Use your knowledge in psychology to help resolve issues in the workplace, recruit and engage employees, and improve individual and team performance.

This course is designed to provide a basis in and appreciation of the scientific discipline of psychology as well as the human resource management professions.

This combination provides you with a highly marketable knowledge base that allows you to relate to a broad range of managers, professionals and consultants, and also provides a foundation for 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 undergraduate psychology study. After this you will need to complete a further two years of skills-based training.

### CAREER OPPORTUNITIES:

Development officer, drug and alcohol counsellor, human resource professional, marketing professional, psychology intern, sales professional, welfare officer.

To work as a registered clinical or counselling psychologist you will need to complete additional study and training.

### EMPLOYMENT INDUSTRIES:

Employment and training, government and private enterprise, health and community services, human resource management, labour market industry and development, marketing and sales, welfare agencies.

### PROFESSIONAL MEMBERSHIPS:

Upon graduating you will be eligible to apply for membership to the Australian Institute of Human Resources. To be eligible for associate membership of the Australian Psychological Society you must complete an additional year of undergraduate psychology study.

### DOUBLE DEGREES AVAILABLE:

See page 102.

## PSYCHOLOGY AND HUMAN RESOURCE MANAGEMENT AND INDUSTRIAL RELATIONS

**Degree:** Bachelor of Science (Psychology and Human Resource Management) and Bachelor of Commerce (Industrial Relations)

**Faculty:** Health Sciences, Business and Law

**Minimum 2019 ATAR:** 70

**Prerequisites:** None

**Desirable:** 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:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 5 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

Use your knowledge in psychology to help resolve issues in the workplace, recruit, and engage employees, and improve individual and team performance.

This double degree is designed to provide a basis in and appreciation of the scientific discipline of psychology as well as the human resource management and industrial relations professions.

This combination gives graduates a highly marketable knowledge base that allows them to relate to a broad range of managers, professionals and consultants, and also provides a foundation for graduate studies in either professional application or research.

You will graduate with knowledge of people and human behaviour. You will also develop good planning, organisational, analytical, and decision-making skills.

In addition you will have good oral and written communication skills, be able to deal with people confidentially, tactfully, and with discretion, as well as being able to work within rule (legislative and legal).

### CAREER OPPORTUNITIES:

Change management professional, clerical officer – local government, economist, human resource officer, industrial relations officer, marketing officer, marketing researcher, psychologist, public relations officer, recruitment consultant, trade union official, training officer, welfare agent.

### EMPLOYMENT INDUSTRIES:

Community services, employment and training, human resource management, labour market industry, training and development in government and private enterprise, welfare agencies, youth and family services.

### PROFESSIONAL MEMBERSHIPS:

Australian Institute of Human Resources. To be eligible for associate membership of the Australian Psychological Society you must complete an additional year of undergraduate psychology study



*"I chose to study psychology at Curtin because of the diversity that comes with the course.*

*There is a range of areas within human behaviour and the course aims to teach every one of them and more through research and practical experiences.*

*With such a dynamic degree, the career choices are endless – I come home every day with a different picture in mind as to what I would like to do in the future! However, no matter what area I choose, I see myself working with people, helping them to build their self-esteem and empowering them to reach their potential."*

Senaida D'Souza  
Psychology student





## HEALTH

STAT key: V = Verbal; Q = Quantitative; WE = Written English



## LAW AND PSYCHOLOGY

**Degree:** Bachelor of Laws and Bachelor of Science (Psychology)

**Faculty:** Business and Law

**Minimum 2019 ATAR:** 90

**Prerequisites:** None

**Desirable:** 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:** WE and either V or Q

**Study mode:** Full-time

**Duration:** 5.5 years full-time

**Location:** Perth and Perth city

### COURSE DESCRIPTION:

This double degree is ideal for students who want to combine a career in law with a deeper understanding of human behaviour, or want to pursue a career in psychology in areas such as the criminal and justice systems.

The Bachelor of Laws degree is a qualification approved by the Legal Practice Board of Western Australia. It offers you a foundation in essential areas of law and legal knowledge, and will help you develop core skills, with a strong practical emphasis, that are essential to effective legal practice.

The Bachelor of Science (Psychology) components will teach you about perception, cognition, emotion, personality, behaviour and interpersonal relationships, and how to examine, explain and predict what people do as individuals and in groups.

### CAREER OPPORTUNITIES:

Lawyer (including practising as a solicitor and/or barrister), psychologist, social policy maker, social researcher (including criminologist).

### EMPLOYMENT INDUSTRIES:

Healthcare and social assistance, government and private practice, humanitarian agencies, private legal and health practices.

## PSYCHOLOGY AND MARKETING

**Degree:** Bachelor of Science (Psychology) and Bachelor of Commerce (Marketing)

**Faculty:** Health Sciences

**Guaranteed 2019 ATAR:** 80

**Prerequisites:** None

**Desirable:** 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:** WE and either V or Q

**Study mode:** Full-time

**Duration:** 5 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

Psychology and marketing are a natural combination, reflecting the day-to-day challenges of the business world and the growing role of psychology in numerous aspects of commerce.

In this course you will learn key concepts and theories in marketing and psychology and apply them to real-world situations. You will develop advanced knowledge of the human brain and acquire analytical methods to examine how culture, personality and lifestyle affect the behaviour of consumers.

You will learn how to analyse and interpret market research data using appropriate technologies and identify local, regional and global issues that affect business. You will also learn advanced psychological methods and the ethical implications of research.

In addition, you will choose from optional commerce units and have the opportunity to run your own virtual company. This simulated experience will enable you to make decisions about market share, manufacturing, cash flow and product development.

### CAREER OPPORTUNITIES:

Advertising specialist, marketing psychologist, market research consultant, product developer, sales executive.

### EMPLOYMENT INDUSTRIES:

Business analyst companies, marketing and PR agencies, market research firms, public and private business.

### PROFESSIONAL RECOGNITION:

This degree provides you with an accredited three-year sequence in psychology. To be eligible for Provisional Registration as a psychologist, or Associate Membership of the Australian Psychological Society, a further year of undergraduate psychology study is required.

Curtin's Marketing major is accredited by the Australian Marketing Institute (AMI).

## SOCIAL WORK

**Degree:** Bachelor of Social Work

**Faculty:** Health Sciences

**Minimum 2019 ATAR:** 70

**Prerequisites:** None

**Desirable:** None

**STAT:** WE and V

**Study mode:** Full-time, part-time\*

**Duration:** 4 years full-time

**Location:** Perth

\*Year 1 and 2 may be studied part-time. Students are encouraged to study year 3 and 4 full-time.

### COURSE DESCRIPTION:

Social workers are committed to social justice, human rights and social change. They work with and alongside individuals, groups and communities to address personal and structural barriers that impact people's quality of life, promote positive relationships, and advocate for human rights.

This degree can provide you with the knowledge and skills to become a professional social work practitioner. You will have the opportunity to study in-depth human behaviour and complex social processes.

Social work draws on knowledge from a range of disciplines including sociology, psychology, politics, philosophy, health and economics. The course focuses on how people understand each other and the interactions between people, their communities and society.

In this course you can use purpose-built teaching spaces and resources that facilitate innovative learning and help you develop the knowledge, skills and values necessary for counselling with individuals and groups, working with adults, the elderly, and children and young people.

You will be encouraged to be self aware, to critically reflect and to understand how people relate to each other and their environments.

Two field placements allow you to apply your learning with supervision from a qualified social work practitioner.

### CAREER OPPORTUNITIES:

Case worker, child safety officer, community development worker, counsellor, family therapist, mental health worker, program officer/coordinator, social worker.

### PROFESSIONAL MEMBERSHIPS:

Australian Association of Social Workers, Western Australian Society Professional Social Workers, International Federation of Social Workers.

## SPEECH PATHOLOGY

**Degree:** Bachelor of Science (Speech Pathology)

**Faculty:** Health Sciences

**Minimum 2019 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.

**Desirable:** At least Mathematics: Applications ATAR

**STAT:** Not accepted

**Study mode:** Full-time, part-time

**Duration:** 4 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

In this course you will learn to diagnose and treat people with communication impairments including speech, language, stuttering, hearing and swallowing difficulties.

The course aims to develop your understanding of typical communication development, developmental and acquired communication and swallowing disorders, clinical practice in speech pathology, clinical measurement and research.

Your first year is interprofessional and taken with other health sciences students. From your second year, your studies will focus on three streams: human communication science, clinical science in speech pathology and research methods.

You can apply your learning during supervised clinical practice in the on-campus clinic and in professional practice settings.

### CAREER OPPORTUNITIES:

Speech pathologist (also known as a speech language pathologist or speech therapist).

### PROFESSIONAL ACCREDITATION:

Speech Pathology Australia.



# ARTS AND CREATIVE INDUSTRIES

STAT key: V = Verbal; Q = Quantitative; WE = Written English

## COURSES

- Arts
  - Animation and Game Design
  - Creative Advertising and Graphic Design
  - Creative Writing
  - Digital Design
  - Fashion
  - Fine Art
  - Photography and Illustration Design
  - Screen Arts
  - Theatre Arts
  - Visualisation and Interactive Media
- Mass Communication

### SEE ALSO:

- Arts
  - Professional Writing and Publishing (page 91)
  - Journalism (page 90)
  - Literary and Cultural Studies (page 90)

## MINORS

Some courses allow you to explore a secondary field of study, called a minor. A minor is a series of four units in the same subject, including at least two units at second-year level or higher. Taking a minor gives you the freedom to study for your intended career and pursue personal study interests at the same time.

If you're a creative person and love to express yourself imaginatively, our courses can develop your skills and teach you to apply them in the working world. You'll get access to excellent teaching facilities such as our on-campus film studio, theatre, radio station and newsroom. Our arts degrees are comprehensive and flexible, allowing you to follow your own interests and create a unique, tailored program from a variety of disciplines.



The World Economic Forum forecasts that between 2015 and 2020, robotics, machine learning, nanotechnology, 3D printing, genetics and biotechnology will create 5.1 million new jobs. Professions like “space tourist guide,” “human body designer” or “virtual environment creator” could be jobs of the future.



## ARTS

**Degree:** Bachelor of Arts (Humanities)  
**Faculty:** Humanities  
**Guaranteed 2019 ATAR:** 70  
**Prerequisites:** None  
**STAT:** WE and either V or Q  
**Study mode:** Full-time, part-time  
**Duration:** 3 years full-time  
**Location:** Perth, online\*

\*Only selected majors are available to study online. See individual courses for more information.

**Majors available:** Animation and Game Design, Anthropology and Sociology, Chinese, Creative Advertising and Graphic Design, Creative Writing, Digital Design, Fashion, Fine Art, Geography, History, International Relations, Internet Communications, Japanese, Journalism, Librarianship and Corporate Information Management, Literary and Cultural Studies, Photography and Illustration Design, Professional Writing and Publishing, Screen Arts, Theatre Arts, Visualisation and Interactive Media.

### COURSE DESCRIPTION:

The Bachelor of Arts is a flexible and dynamic degree that lets you tailor your studies to suit your personal interests and career goals.

The degree offers 21 majors across different disciplines for you to study. Each major combines practical and theoretical study, and includes industry-relevant content that will help you become career-ready when you graduate.

You can complement your major with one of the following options to create the rest of your degree:

- Choose a second major: This allows you to benefit from studying two disciplines in equal depth, and graduate with a double major.
- Choose electives: You can study additional units from any faculty across Curtin, provided you meet the unit prerequisites.
- Choose a minor and electives: You can choose to study a business or arts minor, and elective units in any area you choose.
- Choose two minors: You may be able to study two minors in business or arts.

## ► ANIMATION AND GAME DESIGN MAJOR

**Degree:** Bachelor of Arts (Animation and Game Design)

### COURSE DESCRIPTION:

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.

This major lets you specialise in the exciting area of visual narrative communication, which includes animation design and development, and game design and development.

You will learn and apply the theory and fundamentals behind visual narrative construction by investigating 2D and 3D animation, visual effects production and game design, and developing immersive, virtual world designs. You will 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 video game development industries.

### CAREER OPPORTUNITIES:

3D artist, animator, art/creative director, broadcast designer, character designer, game designer, game developer, motion graphic designer, visual effects artist.

### PROFESSIONAL MEMBERSHIPS:

Design Institute of Australia.

### DOUBLE MAJORS AVAILABLE:

See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).





ARTS AND CREATIVE INDUSTRIES

STAT key: V = Verbal; Q = Quantitative; WE = Written English



► CREATIVE ADVERTISING AND GRAPHIC DESIGN MAJOR

**Degree:** Bachelor of Arts (Creative Advertising and Graphic Design)  
*Note: Portfolio entry is available for this course. See page 104.*

**COURSE DESCRIPTION:**  
Advertising creatives and graphic designers visually communicate across a range of media to persuade, inform and educate audiences online, in print and within a wider environment.

You can elect to study creative advertising, graphic design, or both these disciplines within this major.

The creative advertising discipline focuses on the generation and development of creative ideas across emerging and traditional media, and then producing them by applying professional process and practice.

The graphic design discipline teaches you how to solve complex communication problems through the application of design theory and practice, and encourages you to develop skills across a variety of design disciplines, including branding, editorial, information, publication, wayfinding and interactive design.

In this major, you will develop your design skills using project-based activities and processes, as used in industry. You will work on a wide spectrum of briefs and learn with the technology and software found in the workplace. Third-year components involve self-directed learning and lead to the creation of a graduate portfolio that you will be able to use as a demonstration of your skills when applying for employment.

**CAREER OPPORTUNITIES:**  
Art director, copywriter, creative strategist, desktop publisher, graphic designer, illustrator.

**PROFESSIONAL MEMBERSHIPS:**  
Australian Graphic Design Association, D&AD, International Society of Typographical Designers, Perth Advertising and Design Club.

**DOUBLE MAJORS AVAILABLE:**  
See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).



A PRESTIGIOUS PRIZE

Curtin Professor of Writing Kim Scott, Curtin graduate Tim Winton and the late Curtin Professor Elizabeth Jolley have won seven Miles Franklin Literary Awards between them.

► CREATIVE WRITING MAJOR  
**Degree:** Bachelor of Arts (Creative Writing)  
*Note: Portfolio entry is available for this course. See page 104.*

**COURSE DESCRIPTION:**  
The world is filled with aspiring authors, poets and scriptwriters, but standing out requires a strong understanding of writing conventions and literary techniques.  
If you like to express yourself creatively through writing, this major will help enhance your skills across a range of writing styles, such as fiction, poetry and writing for performance, as well as emerging and experimental genres.

You'll be encouraged to improve your critical awareness and develop all the relevant professional skills required of an author in the digital age. Each week, you will benefit from the advice and support of our tutors, many of whom are acclaimed authors, and through critical engagement with a talented peer group.

You may also get the opportunity to have your work published through Curtin's online journal, *Sitelines*.

**CAREER OPPORTUNITIES:**  
Copywriter, editor, publisher, writer.

**DOUBLE MAJORS AVAILABLE:**  
See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

**DOUBLE DEGREES AVAILABLE:**  
See page 102.

► DIGITAL DESIGN MAJOR  
**Degree:** Bachelor of Arts (Digital Design)  
*Note: Portfolio entry is available for this course. See page 104.*

**COURSE DESCRIPTION:**  
In today's world, where websites are used for promotion and apps help make our lives easier, digital design has to be both professional and user-friendly.  
This major provides you with a comprehensive education in digital design and new media, focusing on key principles and techniques in website design, user interface/experience design (UI/UX) and app design. You will use digital technologies to develop forward-thinking and innovative design solutions to real-world problems.

The major has a strong industry and design research focus, and you will work on real-world projects, facilitated by experienced staff and industry specialists. There is emphasis on concept generation, creative problem-solving, aesthetics and advanced technical skills in digital technologies using the latest production software.

**CAREER OPPORTUNITIES:**  
App designer/developer, experience designer, multimedia designer, web designer/developer.

**PROFESSIONAL MEMBERSHIPS:**  
Australian Graphic Design Association, Australian Web Industry Association, Design Institute of Australia, Perth Advertising and Design Club.

**DOUBLE MAJORS AVAILABLE:**  
See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

► FASHION MAJOR  
**Degree:** Bachelor of Arts (Fashion)  
*Note: Portfolio entry is available for this course. See page 104.*

**COURSE DESCRIPTION:**  
Fashion designers apply design principles to create innovative and contemporary garment and accessory solutions.  
This major will appeal to creative, motivated people with a keen interest in fashion and a passion for contemporary design. In this major, you will focus on the relationship between garment and body, using a theoretical and contextual framework for understanding national and international trends and the cultural significance and practice of fashion design.

You will learn the principles of design and creative studio practice, and develop skills in fabric manipulation and construction, design, patternmaking, styling and fashion illustration. This major encourages you to take an innovative approach to design, achieve technical competence and gain industry experience. You will 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.

*Please note: Participation in the third year fashion graduate show is not compulsory and requires the payment of a designer participation fee.*

**CAREER OPPORTUNITIES:**  
Fashion designer, stylist, theatre costume-maker and designer.

**DOUBLE MAJORS AVAILABLE:**  
See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).



Cultural Fusion by fashion graduate Christy Law (image: China Graduate Fashion Week)



Did you know?

Curtin fashion students in their final year are eligible to apply for an Australian Wool Education Trust scholarship valued at \$1,500 per year\*.

\*Value correct as at 2017





## ARTS AND CREATIVE INDUSTRIES

STAT key: V = Verbal; Q = Quantitative; WE = Written English

### ► FINE ART MAJOR

**Degree:** Bachelor of Arts (Fine Art)

*Note: Portfolio entry is available for this course. See page 104.*

#### COURSE DESCRIPTION:

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

The Fine Art major is designed for those who wish to become professional artists or pursue a range of careers in the growing creative industries.

You will focus on a variety of disciplines, including painting, print media, sculpture, drawing, installation and new media. Within the first and second year of the Fine Art major, you will engage in a range of staff-directed studio-based activities, leading you to develop self-directed projects within the third year of the course.

At the completion of your final year, all Fine Art students participate in the annual Art Degree Show exhibition.

#### CAREER OPPORTUNITIES:

Artist, arts administrator, arts/gallery officer, craftsperson, curator.

#### DOUBLE MAJORS AVAILABLE:

See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

### ► PHOTOGRAPHY AND ILLUSTRATION DESIGN MAJOR

**Degree:** Bachelor of Arts (Photography and Illustration Design)

*Note: Portfolio entry is available for this course. See page 104.*

#### COURSE DESCRIPTION:

Photographers and illustrators create images for a variety of purposes and work in tandem with graphic designers, art directors and digital designers.

From album covers to game art design, imagery plays an essential role in any communication and aids people's understanding of messages. The photography and illustration design major focuses on visual communication and will teach you the skills and knowledge required to be a photographer or illustrator.

You can focus on either photography or illustration, or a combination of both. You will have the opportunity to explore, interpret, develop and realise ideas for commercial and personal outcomes. You'll also examine traditional and digital techniques in photography and illustration.

#### CAREER OPPORTUNITIES:

Artist, arts administrator, creative director, illustrator, photographer, visual merchandiser.

#### PROFESSIONAL MEMBERSHIPS:

Design Institute of Australia.

#### DOUBLE MAJORS AVAILABLE:

See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

### ► SCREEN ARTS MAJOR

**Degree:** Bachelor of Arts (Screen Arts)

#### COURSE DESCRIPTION:

Screen-based media and entertainment is a broad industry that continues to grow and expand in exciting new directions.

The Screen Arts major prepares you for a broad range of opportunities in the growing screen-based media industry.

You will learn to analyse and apply screen theories to create your own works, both factual, and for drama and entertainment. You will develop technical and practical skills to become an effective visual storyteller from the ground up, and in your final year you will write, direct or produce a major screen production to professional industry standards.

Facilities include Western Australia's largest working television studio, a suite of HD cameras, sound recording gear, lighting and grips equipment, as well as editing, grading and audio post-production labs.

The major has two streams. The Screen Production stream focuses more on practical skills whereas the Screen Studies stream explores conceptual, analytical and theoretical aspects.

If you decide to study Screen Arts as a single major, you are encouraged to choose electives from the alternate stream to broaden your understanding and career opportunities.

#### CAREER OPPORTUNITIES:

Audiovisual technician; broadcasting technician; camera operator; film editor; film, stage and TV director; multimedia developer; production assistant; screen critic; screen curator; screenwriter.

#### DOUBLE MAJORS AVAILABLE:

See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

#### DOUBLE DEGREES AVAILABLE:

See page 102.

### ► THEATRE ARTS MAJOR

**Degree:** Bachelor of Arts (Theatre Arts)

*Note: Portfolio entry is available for this course. See page 104.*

#### COURSE DESCRIPTION:

Theatre Arts equips you with all the creative practice and theory you'll need to perform both on and off stage. Our course is a comprehensive training ground for passionate theatre artists.

In the Theatre Arts major, you will develop critical skills, theoretical understanding, practical training and experience in areas of theatre and performance practice. These areas include acting, directing, writing, devising, dramaturgy, critical analysis, stage management and theatre production.

You will be able to learn from artists-in-residence with professional production experience, and have the chance to apply your skills and knowledge in the extensive public production program offered by the on-campus Hayman Theatre Company.

You will also have the opportunity to work on five major productions and up to 20 student-directed productions each year, ranging from classical drama to contemporary Australian and international works, on campus and in venues around Perth.

#### CAREER OPPORTUNITIES:

Actor/actress; film, stage and TV director; performing arts technician; playwright; stage manager.

#### DOUBLE MAJORS AVAILABLE:

See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

#### DOUBLE DEGREES AVAILABLE:

See page 102.

### ► VISUALISATION AND INTERACTIVE MEDIA MAJOR

**Degree:** Bachelor of Arts (Visualisation and Interactive Media)

*Note: Portfolio entry is available for this course. See page 104.*

#### COURSE DESCRIPTION:

Visualisation and interactive media technologies cover a wide area of applications from gaming to social media, and virtual reality to interactive cinema.

This major explores the multidisciplinary aspects of visualisation and interactive media technologies, and considers their application to a variety of areas such as media, medicine, architecture, archaeology, education and business.

You will investigate the critical and practical aspects of new technologies, their social and cultural impact on our lives, and the way we work with them now and in the future.

An advantage of studying this major is learning how to present, interact with and interpret information to turn data into knowledge. You will explore emerging forms of media, technology and content creation, while learning business and management skills to apply within this rapidly evolving industry. You will also develop mobile applications, digitally re-create lost cultures and create interactive, digital worlds.

As well as exploring the creative side of interactive visualisation, you will explore trends such as crowdfunding, big data, digital humanities and 3D in content, business and technology.

#### CAREER OPPORTUNITIES:

Digital media producer and manager; interactive and mobile media designer; interactive multimedia artist and designer; technical artist, designer and 3D expert; user-experience designer and multimedia developer; visual data analyst and information visualisation specialist.

#### DOUBLE MAJORS AVAILABLE:

See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).



*“You’re encouraged to work both front stage and backstage. It means I can appreciate every single job someone is doing around me. It also means that I can act, but I was also educated on how to rig a lighting board, use a sound board, call the show, stage manage, build a set and sew a costume.”*

**Kate Mulvany**  
Actor and Playwright  
BA (Theatre Arts; Creative Writing)

[curtin.edu/hum-mulvany](http://curtin.edu/hum-mulvany)



## ARTS AND CREATIVE INDUSTRIES

STAT key: V = Verbal; Q = Quantitative; WE = Written English

### MASS COMMUNICATION

**Degree:** Bachelor of Arts (Mass Communication)

**Faculty:** Humanities

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** None

**STAT:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth, Dubai, Malaysia, Mauritius, Singapore\*

\*All streams may not be offered at all locations. Please refer to [courses.curtin.edu.au](https://courses.curtin.edu.au) for further information.

#### COURSE DESCRIPTION:

Mass communication professionals are multi-talented experts who can communicate information across the media and the corporate landscape to a large amount of people.

This wide-spanning and flexible degree will provide you with key technological skills and knowledge, as well as understanding issues and debates concerning media, communication and information in the world today.

In your first year, you will be introduced to the different areas that make up mass communication, and in your second and third years you will choose two streams in which to specialise.

First, you will select a media stream: Corporate Screen Production, Journalism or Web Media. Then, you will select another media stream or a design and business stream: Digital Design, Graphic Communication, Photography, Marketing or Public Relations.

#### MEDIA STREAMS:

##### Corporate Screen Production

This stream teaches concepts and skills for client-based screen production such as advertising and promotion, corporate communications, informational and educational media. Assignments and activities closely model industry practice and there is strong emphasis on collaboration and professionalism in all units. You will also have the opportunity to create work for a professional portfolio or showreel.

##### Journalism

In this stream you will develop the ability to research, prepare and publish news, current affairs and other content across different media platforms, including print, broadcast and online media. You will undertake practical work in excellent facilities such as the on-campus TV studio, the *Western Independent* online student news platform and our community radio station, Curtin FM.

##### Web Media

This stream provides a pathway to a career in the expanding field of web-based media and communications, from website creation to online community management. The stream emphasises social media and networking, and units combine practical components with core concepts to give you the necessary understanding and skills you need in the online environment.

#### DESIGN AND BUSINESS STREAMS:

##### Digital Design

This stream provides a comprehensive education in digital design and new media, focusing on key principles and techniques in website design, user interface/experience design (UI/UX) and app design. You will use digital technologies to develop forward-thinking and innovative design solutions to real-world problems.

##### Graphic Communication

Graphic Communication combines words and images in an organised and persuasive way to sell products and ideas. This stream focuses on professional practice and media production processes, and is designed to prepare you for a career in the creative advertising industry.

##### Photography

Photography is undergoing rapid transformation with the advent of new and evolving digital image capture and production technologies.

These technologies and production processes are key areas of study and investigation within this stream, with emphasis on design principles and practice. This stream develops your competencies in technical, mechanical, cultural and aesthetic aspects of photography and their interdependence.

#### Marketing

Marketing is one of the most important functions in building and maintaining a successful business. It's a dynamic area that involves differentiating a company from its competitors and persuading the target market to purchase its products or services.

In this stream, you will understand and apply marketing principles within specialised areas. These areas include international marketing, marketing research, services marketing, consumer behaviour, retail marketing and internet marketing.

#### Public Relations

Public Relations (PR) is about managing communications, reputation, perceptions and relationships for organisations. It means attracting and retaining the support of customers, employees, investors, communities and other groups critical to a business's success.

PR professionals work in a wide variety of organisations and industries. They may provide advice to management and decision-makers at the highest level and work closely with the media.

#### CAREER OPPORTUNITIES:

Advertising account executive, cinematographer, communications officer, content creator, creative advertising consultant, filmmaker, internet analyst, internet project manager, market researcher, marketing officer, media liaison officer, photographer, production coordinator, public relations officer, web communications consultant, web developer, website manager.



*"I built my entire business around the fact that I have a multi-disciplinary degree. Film, photography, writing, marketing and social media were all elements of my degree so it's definitely been worth it for me. Having a firm grasp of theory to back up my practical skills really makes me confident in pitching my services."*

**Amy Hetherington**  
BA (Mass Communication)

Hetherington is the successful founder and manager of Amiable Communications, a Darwin-based consultancy offering various publicity and support services.

[curtin.edu/hum-hether](https://curtin.edu/hum-hether)



# CULTURE, LANGUAGE AND INDIGENOUS

STAT key: V = Verbal; Q = Quantitative; WE = Written English

## COURSES

- Arts
  - Anthropology and Sociology
  - Chinese
  - History
  - International Relations
  - Internet Communications
  - Japanese
  - Journalism
  - Librarianship and Corporate Information Management
  - Literary and Cultural Studies
  - Professional Writing and Publishing
- Indigenous Clinical Mental Health (Practitioner)
- Indigenous Community Health (Associate degree)
- Indigenous Community Health
- Indigenous Community Management and Development (Associate degree)
- Indigenous Community Management and Development

### SEE ALSO:

- Arts
  - Creative Writing (page 80)
  - Geography (page 39)
- Mass Communication (page 84)

## MINORS

Some courses allow you to explore a secondary field of study, called a minor. A minor is a series of four units in the same subject, including at least two units at second-year level or higher. Taking a minor gives you the freedom to study for your intended career and pursue personal study interests at the same time.

Launch your career in a range of community, private or government-based areas with our courses in culture, language and Indigenous studies. You could choose to explore the dynamics of different societies, study the written word and its applications, develop your skills in Asian languages or focus on Indigenous Australian culture.



## ARTS

**Degree:** Bachelor of Arts (Humanities)

**Faculty:** Humanities

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** None

**STAT:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth, online\*

\*Only selected majors are available to study online. See individual courses for more information.

**Majors available:** Animation and Game Design, Anthropology and Sociology, Chinese, Creative Advertising and Graphic Design, Creative Writing, Digital Design, Fashion, Fine Art, Geography, History, International Relations, Internet Communications, Japanese, Journalism, Librarianship and Corporate Information Management, Literary and Cultural Studies, Photography and Illustration Design, Professional Writing and Publishing, Screen Arts, Theatre Arts, Visualisation and Interactive Media.

### COURSE DESCRIPTION:

The Bachelor of Arts is a flexible and dynamic degree that lets you tailor your studies to suit your personal interests and career goals.

The degree offers 21 majors across different disciplines for you to study. Each major combines practical and theoretical study, and includes industry-relevant content that will help you become career-ready when you graduate.

You can complement your major with one of the following options to create the rest of your degree:

- **Choose a second major:** This allows you to benefit from studying two disciplines in equal depth, and graduate with a double major.
- **Choose electives:** You can study additional units from any faculty across Curtin, provided you meet the unit prerequisites.
- **Choose a minor and electives:** You can choose to study a business or arts minor, and elective units in any area you choose.
- **Choose two minors:** You may be able to study two minors in business or arts.





CULTURE, LANGUAGE AND INDIGENOUS

STAT key: V = Verbal; Q = Quantitative; WE = Written English



► ANTHROPOLOGY AND SOCIOLOGY MAJOR

**Degree:** Bachelor of Arts (Anthropology and Sociology)  
*Note: Available to study online.*

**COURSE DESCRIPTION:**  
Anthropology is the study of what it means to be human through the lenses of cultural diversity. Sociology examines how human actions in modern societies are shaped by social groups and by wider social, economic and political pressures.

The Anthropology and Sociology major draws upon the combined strengths of these two related fields to enhance interdisciplinary research and professional practice.

You will focus on both local and global contexts, particularly in Australia, South Asia, South-East Asia, East Asia and the Pacific. You will explore how cultural practices, institutions, social groups and everyday lives are being transformed within the context of globalised communication and economic, political and environmental change. You will also learn practical and conceptual skills to respond to global and local change.

This major allows you to explore contemporary issues including family, sport, gender relations, media, education, work and economic change, community development, health, crime and human rights.

**CAREER OPPORTUNITIES:**  
Anthropologist, development worker, heritage worker, sociologist.

**DOUBLE MAJORS AVAILABLE:**  
See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

**DOUBLE DEGREES AVAILABLE:**  
See page 102.

► CHINESE MAJOR

**Degree:** Bachelor of Arts (Chinese)  
**COURSE DESCRIPTION:**  
Chinese comprises a variety of closely related languages and dialects, and is spoken by 1.3 billion people, making it the world’s most widely spoken first language.

This major will provide you with a high level of literacy in the Chinese language (listening, speaking, reading and writing) as well as an understanding of Chinese culture and society.

China is one of the world’s most vibrant economies and an important trade partner for Australia. With strong social and economic growth occurring in Asia, undertaking a major in this area will provide you with the required skills and knowledge for employment opportunities around the world.

No previous study of the language is required. If you have previously studied Chinese, you will take more advanced classes. There are also units specifically designed for native speakers of Chinese.

**CAREER OPPORTUNITIES:**  
Foreign affairs and trade officer, interpreter or translator, research officer, teacher of English as a second language, tour guide, tourist information officer, trade measurement officer, welfare worker.

**DOUBLE MAJORS AVAILABLE:**  
See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

**DOUBLE DEGREES AVAILABLE:**  
See page 102.

► HISTORY MAJOR

**Degree:** Bachelor of Arts (History)  
*Note: Available to study online.*

**COURSE DESCRIPTION:**  
Historians explore the past, examining the development of social, political, cultural and economic forces and how they have shaped societies and cultures over time.

Through examining the past, the History major seeks to help you understand present day societies, events and everyday life, and will encourage you to think of ways to help society overcome and adapt to the challenges of our changing environment.

This major’s international scope includes specialised studies in Australia, Western Europe and Russia, the Middle East, South Asia, South-East Asia and East Asia. Within this scope, you will study topics such as war, conflict, empire, imperialism, dictatorships, marginalisation, culture, heritage, place and belonging, whilst being encouraged to examine how history shapes the way we now think, believe and act.

You will also acquire critical thinking skills, and the capacity to analyse and discuss ideas, which are readily transferable into a range of careers.

**CAREER OPPORTUNITIES:**  
Historian, museum curator, political scientist, research officer.

**DOUBLE MAJORS AVAILABLE:**  
See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

**DOUBLE DEGREES AVAILABLE:**  
See page 102.

► INTERNATIONAL RELATIONS MAJOR

**Degree:** Bachelor of Arts (International Relations)  
*Note: Available to study online.*

**COURSE DESCRIPTION:**  
International relations is a multidisciplinary field that investigates the social, economic and environmental relationships between different political bodies.

This dynamic major focuses on current international topics and issues, covering political theory, international relations theory, foreign policy, strategic studies and political history.

You will explore the art of diplomacy and policy making, geopolitical change, and national and regional security in broad contexts, including military, politics and geo-economics. Political and regional globalisation, with an emphasis on Asia, is explored in-depth. Issues of international trade, environmental change, resource management and human rights are further study topics.

This major will allow you to develop your skills in critical analysis and problem-solving as well as written and oral communications, which are transferable into a variety of careers.

**CAREER OPPORTUNITIES:**  
Parliamentarian, political scientist, public servant, research officer.

**DOUBLE MAJORS AVAILABLE:**  
See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

**DOUBLE DEGREES AVAILABLE:**  
See page 102.

► INTERNET COMMUNICATIONS MAJOR

**Degree:** Bachelor of Arts (Internet Communications)  
*Note: Available to study online.*

**COURSE DESCRIPTION:**  
With more than three billion users, the internet is an enormous, culturally rich information and communications environment.

In this major, you will explore the human dimension of the internet, including how people network, collaborate and share information through internet communications, media and design.

You will learn advanced skills in creating, maintaining and managing online communications and gain an understanding of their social and cultural contexts. You will learn the significance of social media, analyse political and social uses of the internet and develop skills in web media, publishing and presence, online public communication and virtual community management.

Ultimately, this major is designed to prepare you for a career in areas such as media and communications, marketing, content management, internet policy, social media management and web media production.

**CAREER OPPORTUNITIES:**  
Copywriter, data business analyst, digital producer, digital strategist, online content creator, online media manager, social media manager, web designer/developer.

**DOUBLE MAJORS AVAILABLE:**  
See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

**DOUBLE DEGREES AVAILABLE:**  
See page 102.

► JAPANESE MAJOR

**Degree:** Bachelor of Arts (Japanese)  
**COURSE DESCRIPTION:**  
With a still widely unknown origin, Japanese comprises three different written systems and is spoken by 130 million people around the world.

This major is designed to provide a high level of literacy in the Japanese language as well as an understanding of Japanese culture.

Japan is an important trade partner for Australia and a gateway to other Asian nations. Asia is diverse, rapidly changing and full of opportunities. This major will allow you to explore career opportunities in Japan and bilingual job opportunities in Australia and overseas.

No previous study of the language is required. If you have previously studied Japanese, you will take more advanced classes. The teaching methods that are applied to both spoken and written language use the latest technology and cultural awareness activities.

**CAREER OPPORTUNITIES:**  
Foreign affairs and trade officer, hotel or motel manager, interpreter or translator, tourist information officer, trade measurement officer.

**DOUBLE MAJORS AVAILABLE:**  
See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

**DOUBLE DEGREES AVAILABLE:**  
See page 102.





CULTURE, LANGUAGE AND INDIGENOUS

STAT key: V = Verbal; Q = Quantitative; WE = Written English

► JOURNALISM MAJOR

**Degree:** Bachelor of Arts (Journalism)  
*Note: Portfolio entry is available for this course. See page 104.*

**COURSE DESCRIPTION:**

Journalists research, investigate and report important issues and interesting topics across different media platforms.

Journalism at Curtin has an excellent reputation in the media industry, locally, nationally and internationally.

In this major, you will learn to research and prepare news, current affairs and other content for publication across radio, television and online. You will acquire strong journalism skills that can be applied to communications roles in mainstream media and cross-platform publishing environments.

You will learn a good mix of theory and practical skills from staff with strong industry experience. You will also have access to industry-standard equipment, facilities and publishing platforms such as Curtin FM, television broadcast avenues and the online student news platform, *Western Independent*. An optional professional placement unit will give you an opportunity to gain work experience with potential employers.

If you are interested in studying additional communications fields such as web media, marketing or graphic communication, consider the Mass Communication degree (see page 84).

**CAREER OPPORTUNITIES:**

Blogger; communications officer; editor; media liaison officer; media presenter; media researcher; online, print, radio or TV journalist; photojournalist.

**DOUBLE MAJORS AVAILABLE:**  
See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

**DOUBLE DEGREES AVAILABLE:**  
See page 102.

► LIBRARIANSHIP AND CORPORATE INFORMATION MANAGEMENT DOUBLE MAJOR

**Degree:** Bachelor of Arts (Librarianship and Corporate Information Management)  
*Note: Available to study online.*

*Note: The Librarianship major and Corporate Information Management major must be studied together as a double major.*

**COURSE DESCRIPTION:**

Because skilled information use is crucial to the success of business, government and individuals, there is great demand for professionals who can manage information at an advanced level.

Combined, the Librarianship and Corporate Information Management majors lead to a professionally accredited qualification in librarianship, archives and records management.

This double major teaches you to locate, evaluate and manage any information in any organisation. You'll apply these skills to a wide range of information sources, such as print and online documents, records, social media, research data and corporate knowledge.

Through a combination of hands-on industry experience, practical project work and critical thinking within a professional theoretical framework, you will learn to evaluate client information needs and will offer future employers an expert level of information literacy. You will also undertake two professional placements as part of this course.

**CAREER OPPORTUNITIES:**

Archivist, corporate knowledge manager, librarian, records manager, researcher.

**PROFESSIONAL ACCREDITATION:**

Australian Library and Information Association, Australian Society of Archivists, Records and Information Management Professionals Australasia.

► LITERARY AND CULTURAL STUDIES MAJOR

**Degree:** Bachelor of Arts (Literary and Cultural Studies)

**COURSE DESCRIPTION:**

Literary and cultural studies explores the development of cultures and how meanings within them are circulated.

In the Literary and Cultural Studies major, you will focus on the construction of cultural values and the ways in which they are creatively and socially articulated.

You will explore a number of media, including novels, advertisements, newspapers, photographs, paintings, film, fashion, popular music, social space and social media, and how these encode and reflect the cultural conditions. By learning how to interpret encodings, you will gain new ways of understanding and making sense of our world in all its complexity.

This major suits students who are interested in popular cultural texts, socio-political issues and how society came to be the way it is today.

**CAREER OPPORTUNITIES:**

Arts administrator, copywriter, journalist, public relations officer, researcher, writer/conservator.

**DOUBLE MAJORS AVAILABLE:**  
See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

**DOUBLE DEGREES AVAILABLE:**  
See page 102.

**In 2017, Curtin journalism students launched a dedicated news service for much-loved community radio station, Noongar FM. [curtin.edu/hum-nfm](http://curtin.edu/hum-nfm)**

► PROFESSIONAL WRITING AND PUBLISHING MAJOR

**Degree:** Bachelor of Arts (Professional Writing and Publishing)

**COURSE DESCRIPTION:**

Employers in the public and private sectors need people who can research, write, edit and publish a wide range of materials.

The Professional Writing and Publishing major will develop your skills and knowledge in many genres and styles of writing, while you explore your own creativity and gain the ethical understanding vital to successful workplace writing.

You will learn to produce and edit feature articles, speeches, reports, discussion papers, website content, creative non-fiction, media releases and many other forms of communication. You will cover copyright, censorship, plagiarism and the ethics of writing in the public domain.

You will also have the valuable opportunity to undertake a professional work placement with an industry employer in your final semester of study.

**CAREER OPPORTUNITIES:**

Blogger, copywriter, corporate communications advisor, editor, media professional, public servant, publisher, writer.

**DOUBLE MAJORS AVAILABLE:**  
See [curtin.edu/hum-ba](http://curtin.edu/hum-ba).

**DOUBLE DEGREES AVAILABLE:**  
See page 102.

INDIGENOUS CLINICAL MENTAL HEALTH (PRACTITIONER)\*

**Degree:** Bachelor of Applied Science (Indigenous Clinical Mental Health (Practitioner))

**Faculty:** Centre for Aboriginal Studies  
**Prerequisites:** Available to applicants of Aboriginal or Torres Strait Islander descent and 10 non-Indigenous students. You may gain entry on completion of a Certificate IV or Diploma in Mental Health, or entry via assessment.

**STAT:** Not applicable

**Study mode:** Full-time  
Available by block release only. You are required to attend four two-week study blocks on campus a year.

**Duration:** 3 years full-time, block release only

**Location:** Perth

*\* At the time of print, this course is being reviewed in consultation with communities and industry partners to ensure the best possible employment outcomes. This course will not have clinical practitioner accreditation.*

**COURSE DESCRIPTION:**

This course is designed to provide the skills and knowledge you need to work as an Indigenous mental health practitioner. It aims to empower and strengthen the wellbeing of Aboriginal and Torres Strait Islander communities through a holistic, multi-disciplinary approach that encompasses traditional healing practices in the context of mental health best care and treatment.

The course provides comprehensive mental health strategies, skills, knowledge and treatment methodologies to engage with Aboriginal community mental health patients who may be suffering with a mental health illness. You'll learn to apply mental health first aid, identify intervention strategies and apply health restoration and health reorganisation skills, working with the client and their family.

**CAREER OPPORTUNITIES:**

This course will equip you with the skills and knowledge you need to work as a mental health practitioner within a mental health clinic, hospital or facility.

INDIGENOUS COMMUNITY HEALTH (ASSOCIATE DEGREE)

**Degree:** Associate Degree in Indigenous Community Health

**Faculty:** Centre for Aboriginal Studies  
**Prerequisites:** Available only to applicants of Aboriginal or Torres Strait Islander descent. Your education, personal and work experience, existing skills, community, family and employer support are evaluated. It is preferable that you are working, or prepared to undertake voluntary work in an Aboriginal health or community-related position.

**STAT:** Not applicable

**Study mode:** Full-time  
Available by block release only. You are required to attend four two-week study blocks on campus a year.

**Duration:** 2 years full-time, block release only

**Location:** Perth

**COURSE DESCRIPTION:**

See page 92 for course description.





CULTURE, LANGUAGE AND INDIGENOUS

STAT key: V = Verbal; Q = Quantitative; WE = Written English

INDIGENOUS COMMUNITY HEALTH

**Degree:** Bachelor of Applied Science (Indigenous Community Health)  
**Faculty:** Centre for Aboriginal Studies  
**Prerequisites:** Available only to applicants of Aboriginal or Torres Strait Islander descent. Education, personal and work experience, existing skills, community, family and employer support are evaluated. It is preferable that you are working, or prepared to undertake voluntary work in an Aboriginal health or community-related position.  
**STAT:** Not applicable  
**Study mode:** Full-time  
Available by block release only. You are required to attend four two-week study blocks on campus a year.  
**Duration:** 3 years full-time, block release only  
**Location:** Perth

**COURSE DESCRIPTION:**  
Skilled Aboriginal and Torres Strait Islander health workers are in great demand. If you are already working in a health-related position, this course will increase your knowledge and skills to perform more effectively. You can learn the skills required to provide an alternative, inclusive approach to health management that acknowledges Indigenous healing practices.

This course also aims to empower you to become a role model for positive change in Indigenous health. You will learn how to achieve this through the application of Indigenous knowledge, primary healthcare, health promotion, community development concepts and practice, and project development, implementation and evaluation.

The program is community-based to allow you to develop your skills in a community setting. Many of our students already work in the Aboriginal health industry and complete most of their study in the workplace.

This course has a common first year, followed by the stream of your choice. You will attend four study blocks of two weeks at Curtin's main campus in Bentley each year, completing learning contracts in-between.

**CAREER OPPORTUNITIES:**  
Aboriginal or Torres Strait Islander health worker, health promotion officer.

INDIGENOUS COMMUNITY MANAGEMENT AND DEVELOPMENT (ASSOCIATE DEGREE)

**Degree:** Associate Degree in Indigenous Community Management and Development  
**Faculty:** Centre for Aboriginal Studies  
**Prerequisites:** Available only to applicants of Aboriginal or Torres Strait Islander descent. Work experience in an area of community management and development is an advantage. Alternative pathways are available for mature-age applicants.  
**STAT:** Not applicable  
**Study mode:** Full-time  
Available by block release only. You are required to attend four two-week blocks per annum on Curtin's main campus in Bentley and in regional learning centres when available.  
**Duration:** 2 years full-time, block release only  
**Location:** Perth

**COURSE DESCRIPTION:**  
See Bachelor of Applied Science (Indigenous Community Management and Development) for course description.

INDIGENOUS COMMUNITY MANAGEMENT AND DEVELOPMENT

**Degree:** Bachelor of Applied Science (Indigenous Community Management and Development)  
**Faculty:** Centre for Aboriginal Studies  
**Prerequisites:** Available only to applicants of Aboriginal or Torres Strait Islander descent. Successfully completing the Associate Degree in Indigenous Community Management and Development can be used to gain admission to this course. Work experience in an area of community management and development is an advantage. Alternative pathways are available for mature-age applicants.  
**STAT:** Not applicable  
**Study mode:** Full-time  
Available by block release only. You are required to attend four two-week blocks per annum on Curtin's main campus in Bentley and in regional learning centres when available.  
**Duration:** 3 years full-time, block release only  
**Location:** Perth

**COURSE DESCRIPTION:**  
The Indigenous community management and development course aims to give you the skills you need to make a positive impact in your community.

You will be able to explore ways to implement effective, culturally appropriate change, and develop knowledge that enables you to take on management roles and to add to your professional development.

You will be encouraged to take on leadership roles to foster a community that is considerate of Indigenous Australian values and works towards greater Indigenous involvement with organisations responsible for Indigenous services.

This course has a common first year, followed by the stream of your choice. In this course, you will attend four study blocks of two weeks at Curtin's Bentley Campus each year.

The bachelor degree course covers four main areas of study: management theories and practices, community development processes, policy development and implementation issues. You can also explore historical, social, political and economic factors and the ways in which they have influenced contemporary Indigenous society.

**CAREER OPPORTUNITIES:**  
Community worker.



*"I chose to study a Bachelor of Applied Science in Indigenous Community Management and Development. It's about empowering communities, getting them to look at their own resources and getting them to take a stand on where they want to go. It was a great degree.*

*Since I graduated, I have been working as the Program Manager for AIME Mentoring at Curtin University. I love every minute of work because it gives me an opportunity to give back. The grit, resilience and determination displayed by the young Indigenous high school students is quite remarkable."*

**Tomzarni Dann**  
Bachelor of Applied Science (Indigenous Community Management and Development)



NAIDOC Week is a national event in celebration of Aboriginal and Torres Strait Islander cultures, traditions, history and achievements. It has been celebrated in the first week of July since 1957. Curtin celebrates NAIDOC Week each year with a wide variety of activities on campus.





# ARCHITECTURE AND CONSTRUCTION

STAT key: V = Verbal; Q = Quantitative; WE = Written English

## COURSES

- Architectural Science
- Construction Management
- Interior Architecture
- Urban and Regional Planning

### SEE ALSO:

- Civil and Construction Engineering (page 42)

Architecture and construction is more than just designing and constructing buildings. Our courses teach you to create quality environments in which people live, work and play. The growing need for infrastructure to support communities and industry means you have opportunities to work on diverse and interesting projects. These can range from small projects such as designing houses to large-scale projects such as building hospitals, factories or freeways.



## ARCHITECTURAL SCIENCE

**Degree:** Bachelor of Applied Science (Architectural Science)

**Faculty:** Humanities

**Guaranteed 2019 ATAR:** 70\*

**Prerequisites:** None

**STAT:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

\*Minimum ATAR for 2019 intake is subject to change without notice. Please refer to [courses.curtin.edu.au](https://courses.curtin.edu.au) for the most up-to-date information.

**Additional admission criteria:** if you have already studied architecture at another university or interior architecture at Curtin, and are applying for credit for recognised learning, you will be required to attend an interview and folio review.

### COURSE DESCRIPTION:

Architecture combines the creative practices of an architectural design studio with the cultural, social, technical and sustainable issues that are associated with the built environment.

In the Architectural Science degree, you'll study the relationship between natural and constructed environments, the architectural proposition and the occupation of space. You will be taught by academic staff, industry-based practitioners and guest lecturers.

Architecture consists of five years' study in total. The Bachelor of Applied Science (Architectural Science) is a three-year fulltime degree, and is a pathway for the two-year accredited Master of Architecture qualification.

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

### CAREER OPPORTUNITIES:

Building technician, draftsman.

Once you have completed your Master of Architecture you can register and practise as an architect.

### MASTER OF ARCHITECTURE ACCREDITATION:

The Master of Architecture is the final stage of the five-year study pathway to becoming an architect. Together with the Bachelor of Applied Science (Architectural Science), this course is recognised by the Architects Board of Western Australia as meeting the academic requirements for registration as an architect in Western Australia.

### PROFESSIONAL MEMBERSHIPS:

On completing approved postgraduate practical experience, you will be eligible for associate membership of the Australian Institute of Architects. Internationally, the course is recognised by the architectural boards in Singapore and Hong Kong. Validation is also being sought from the Council of Accreditation and Architectural Education Malaysia, a regulatory body under the auspices of *Lembaga Arkitek Malaysia* (the Board of Architects Malaysia).



### CONSTRUCTION MANAGEMENT

**Degree:** Bachelor of Applied Science (Construction Management)

**Faculty:** Humanities

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** Mathematics: Applications ATAR or equivalent

**Desirable:** Mathematics: Methods ATAR or Mathematics: Specialist ATAR, or equivalent

**STAT:** WE and Q

**Study mode:** Full-time, part-time

**Duration:** 4 years full-time

**Location:** Perth

**COURSE DESCRIPTION:**

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

This degree is management-oriented and prepares you for a range of professional roles in the building and infrastructure construction industry. You will be taught by a dedicated team of professionals with qualifications and experience in construction-related disciplines.

You will study subjects relating to:

- building law
- construction technology
- contract administration
- cost management
- cost planning
- implementation of IT in construction (including building information modelling)
- professional communication and interpersonal skills
- project planning and management
- quantity measurement and cost estimating
- strategy and financial management.

You will also have the opportunity to participate in supervised visits to construction sites and international study trips. In addition to your study, you will be strongly encouraged to undertake work experience within the industry prior to graduating.

**CAREER OPPORTUNITIES:**

Building contractor, building surveyor, building technician, construction manager, contract administrator, estimator, project manager, property developer, quantity surveyor.

**PROFESSIONAL MEMBERSHIPS:**

Australian Institute of Building, Australian Institute of Quantity Surveyors, the Royal Institution of Chartered Surveyors and the Board of Quantity Surveyors Malaysia, if requirements are met.

**PENDING ACCREDITATION:**

Re-accreditation is currently being sought from the Australian Institute of Quantity Surveyors.

### INTERIOR ARCHITECTURE

**Degree:** Bachelor of Applied Science (Interior Architecture)

**Faculty:** Humanities

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** None

**STAT:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 4 years full-time

**Location:** Perth, online

*Note: Portfolio entry is available for this course. See page 104.*

Additional admission criteria: non-ATAR domestic students will need to attend an interview and folio review for entry into this course if seeking entry into second year or above.

**COURSE DESCRIPTION:**

Interior architecture professionals work within the design and built environment industries and beyond. They are able to offer creative, proactive and innovative design solutions to many exciting developments currently happening across all areas of contemporary life.

This degree will provide you with a strong foundation in critical design thinking, problem-solving, communication skills and theory relating to human occupation. You will also learn the knowledge and technical skills required for interior construction and building systems.

Throughout your degree, you will explore the human experience as central to interior architecture, particularly as the innovation economy generates significant change to the designs of places where we learn, work and live.

From your first year onwards, you will develop the knowledge and practical skills to prepare you for professional practice.

You will have opportunities to work on real projects with real clients contributing creative, innovative and effective design solutions. You undertake site visits, develop site documentation and deliver client briefings. You will also have the opportunity to initiate and pitch design concepts, receive valuable feedback from real clients and practitioners, and produce detailed design documentation.

Embedded within our degree are four elective units, which give you the opportunity to study a minor in a secondary field.

It is required that you complete a minimum of 10 days' discipline-related work experience before you graduate.

Curtin is the only university in Western Australia to offer a four-year interior architecture degree.

**CAREER OPPORTUNITIES:**

Branding and marketing specialist, design researcher and strategist, design theorist,, exhibition and event coordinator, furniture and lighting designer, interior designer.

**PROFESSIONAL MEMBERSHIPS:**

IDEA (Interior Design/Interior Architecture Educators Association), Design Institute of Australia.

### URBAN AND REGIONAL PLANNING

**Degree:** Bachelor of Arts (Urban and Regional Planning)

**Faculty:** Humanities

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** None

**STAT:** WE and either V or Q

**Study mode:** Full-time, part-time

**Duration:** 4 years full-time

**Location:** Perth

**COURSE DESCRIPTION:**

Urban and regional planners look at whether future land use and development ideas are practical by considering economic, social, political, legal, environmental and aesthetic issues.

In the Bachelor of Arts (Urban and Regional Planning), you will learn to balance public and private interests to improve the quality of life for everyone. You will have the opportunity to develop a sustainable future by learning the knowledge and skills required to shape our built environment through innovative planning practices.

Each semester, you can undertake fieldwork with practical planning projects, which help you learn core skills recognised by employers in the planning profession. These projects are often carried out in conjunction with our industry partners, exposing you to future employers.

You have the opportunity to participate in overseas internships, field work units and study tours to investigate how your planning skills can be applied to different global and cultural contexts.

You can expect to graduate with a high level of communication skills; knowledge of design, economics and law; good technical skills relating to land use planning; and the ability to demonstrate sound ethical and professional behaviour.

**CAREER OPPORTUNITIES:**

Developer, planning consultant, regional development officer, urban designer, urban planner.

**PROFESSIONAL ACCREDITATION:**

Planning Institute of Australia.



**Architecture was once an Olympic sport**

During the first four decades of the modern Olympic Games, 151 medals were awarded across five categories for music, painting, sculpture, literature, and architecture.



# EDUCATION

STAT key: V = Verbal; Q = Quantitative; WE = Written English

## COURSES

- Educational Studies
- Early Childhood Education
- Primary Education
- Secondary Education

### ADDITIONAL REQUIREMENTS:

All courses in this section require you to have the following:

- Criminal Record Screening
- Working with Children Check.

The Early Childhood Education, Primary Education and Secondary Education courses require you to provide evidence of successful completion of the Literacy and Numeracy Test for Initial Teacher Education students (LANTITE) prior to graduation. This test, managed by the Australian Council for Educational Research (ACER), is a national requirement applicable to all teaching graduates. You are responsible for meeting the costs associated with taking the test. For more details, visit [teacheredtest.acer.edu.au](http://teacheredtest.acer.edu.au)

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 education and 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.



## EDUCATIONAL STUDIES

**Degree:** Bachelor of Educational Studies

**Faculty:** Humanities

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** None

**Desirable:** Mathematics: Applications ATAR, or equivalent

**STAT:** WE and V and Q

**Study mode:** Full-time, part-time

**Duration:** 3 years full-time

**Location:** Perth

### COURSE DESCRIPTION:

Not everyone working in the field of education is a teacher. There are a variety of other roles that require comprehensive understanding of the education curriculum and advanced communication and collaboration skills.

This degree allows you to learn about the field of education from the perspective of someone who isn't intending to seek registration as a qualified school teacher.

You will explore core learning areas of the curriculum and learn how to respond to the diverse needs of students. You will also examine mentoring, leadership and research within an educational environment. This may be useful if you go on to work in school or education centre-based administration and management teams, where you will be required to provide expertise relating to teaching.

You will have an opportunity to specialise in an area of education, focusing on:

- early years and primary education; or
- secondary education.

If you graduate from the course and become interested in seeking registration as a qualified teacher, you can apply for entry into our initial teacher education courses and may be given credit for units that you've completed.

*Please note: This course is not accredited by the Teachers' Registration Board of WA and therefore will not provide graduates with the ability to register as a teacher.*

### CAREER OPPORTUNITIES:

Coach, curriculum designer, education administration role, mentor, policy development officer, public health educational developer, school administration officer, teaching support role.

## EARLY CHILDHOOD EDUCATION

**Degree:** Bachelor of Education (Early Childhood Education)

**Faculty:** Humanities

**Guaranteed 2019 ATAR:** 70

**Prerequisites:** None

**Desirable:** Mathematics: Applications ATAR, or equivalent

**STAT:** WE and V and Q

**Study mode:** Full-time, part-time

**Duration:** 4 years full-time

**Location:** Perth, Albany\*, Kalgoorlie\*, online

\*Albany and Kalgoorlie locations are only available to domestic students living in regional areas. Study at these locations consists of a mix of online and on-campus.

### COURSE DESCRIPTION:

Early childhood teachers play an integral role in shaping the social and cognitive development of children during their formative years.

The Early Childhood Education degree is an exciting program that provides a well-respected qualification for teaching young children from birth to eight years of age in early childhood centres, kindergarten, pre-primary and junior primary classes.

This degree encompasses child development, the importance of family partnerships and develops a solid knowledge of the curriculum learning areas. It will provide you with the skills, knowledge and practical learning experiences you need to teach in early childhood education settings.

*Please note: If you are studying this course online you will still need to complete the professional work experience requirement in a registered school where the language of instruction is English. This may be undertaken in your home state or region, if available. However, no more than 25 per cent of the professional work experience can be completed in schools outside Australia.*

### CAREER OPPORTUNITIES:

Early childhood teacher, early learning centre educator, early learning centre manager, education advisor and reviewer, junior primary teacher, nanny.

### PROFESSIONAL REGISTRATION:

Graduates are eligible for registration as a teacher in all Australian states and territories and in any other country that recognises an Australian teaching qualification.

### PROFESSIONAL RECOGNITION:

National recognition as an initial pre-service teaching qualification.





EDUCATION

STAT key: V = Verbal; Q = Quantitative; WE = Written English

PRIMARY EDUCATION

**Degree:** Bachelor of Education (Primary Education)  
**Faculty:** Humanities  
**Guaranteed 2019 ATAR:** 70  
**Prerequisites:** None  
**Desirable:** Mathematics: Applications ATAR, or equivalent  
**STAT:** WE and V and Q  
**Study mode:** Full-time, part-time  
**Duration:** 4 years full-time  
**Location:** Perth, Albany\*, Kalgoorlie\*, online

\*Albany and Kalgoorlie locations are only available to domestic students living in regional areas. Study at these locations consists of a mix of online and on-campus.

*Note: Portfolio entry is available for this course. See page 104.*

COURSE DESCRIPTION:

Primary school teachers educate children aged five to 12 years across a range of subjects, including English, the arts, science, mathematics, health and physical education.

The Bachelor of Education (Primary Education) provides a qualification enabling you to teach primary school students in the government, Catholic and independent school sectors.

Your core education units will comprise the bulk of the degree and are taken throughout the four years. The course encourages analytical and critical thinking, and a student-centred approach to teaching and learning.

You will work in schools in various capacities and for varying lengths of time throughout the program, culminating in a final term-long internship.

*Please note: If you are studying this course online you will still need to complete the professional work experience requirement in a registered school where the language of instruction is English. This may be undertaken in your home state or region, if available. However, no more than 25 per cent of the professional work experience can be completed in schools outside Australia.*

CAREER OPPORTUNITIES:

Curriculum designer; education administration officer; policy development officer; primary school teacher; special programs officer; trainer, mentor or coach.

PROFESSIONAL REGISTRATION:

Graduates are eligible for registration as a teacher in all Australian states and territories and in any other country that recognises an Australian teaching qualification.

PROFESSIONAL RECOGNITION:

National recognition as an initial pre-service teaching qualification.

SECONDARY EDUCATION

**Degree:** Bachelor of Education (Secondary Education)  
**Faculty:** Humanities  
**Guaranteed 2019 ATAR:** 70  
**Prerequisites:**

- Mathematics Education major: Mathematics: Methods ATAR, or equivalent.
- Science Education major:
  - Biology requires Mathematics: Applications and at least one ATAR science course from the following list: 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, or Psychology ATAR.
  - Chemistry requires Mathematics: Methods and Chemistry ATAR, or equivalent.
  - Physics requires Mathematics: Methods and Physics ATAR, or equivalent.
- Other education majors: none.

**Desirable:**

- Mathematics Education major: Mathematics: Specialist ATAR
- Science Education major:
  - Chemistry – Mathematics: Specialist and Physics ATAR.
  - Human Biology – Human Biology or Biology, Chemistry and Mathematics: Applications ATAR.
  - Physics – Mathematics: Specialist and Chemistry ATAR.
  - Psychology – Mathematics: Applications ATAR.
- Other education majors: none.

**STAT:** WE and V and Q  
**Study mode:** Full-time, part-time  
**Duration:** 4 years full-time  
**Location:** Perth

**Additional admission criteria:** you will be required to complete a non-academic attributes test in order to assess your suitability for teaching.

**Additional admission criteria:** you will be required to complete a non-academic attributes test in order to assess your suitability for teaching.

**Additional admission criteria:** you will be required to complete a non-academic attributes test in order to assess your suitability for teaching.

COURSE DESCRIPTION:

Specialising in particular subjects, secondary school teachers help adolescents in government, Catholic and independent schools reach their full potential.

The Bachelor of Education (Secondary Education) is designed to prepare you for a rewarding career in secondary school teaching and to pursue your specialist interests.

You will develop the critical skills, knowledge and understanding of best practice in education in order to meet the needs of 21st-century learners.

As part of the degree program, you will specialise in either one or two secondary school curriculum areas. You will study a number of units providing specialist discipline knowledge, delivered by active researchers and teaching professionals.

You can choose to major in English, Mathematics, Science, Humanities and Social Sciences (HASS), or The Arts.

Core education units comprise the bulk of this course covering areas such as planning, implementing and evaluating learning experiences and programs, classroom management and teaching strategies, learning processes, educational psychology, Indigenous education, teaching students with diverse learning needs and curriculum studies.

EDUCATION MAJORS:

- English
- HASS (Economics)
- HASS (Geography)
- HASS (History)
- HASS (Politics & Law)
- Mathematics
- Science (Biology)
- Science (Chemistry)
- Science (Human Biology)
- Science (Physics)
- Science (Psychology)
- The Arts (Drama)
- The Arts (Media Production & Analysis)
- The Arts (Visual Arts).

CAREER OPPORTUNITIES:

Curriculum designer; international baccalaureate teacher; policy development officer; secondary school teacher; special programs officer; trainer, mentor or coach.

PROFESSIONAL REGISTRATION:

Graduates are eligible for registration as a teacher in all Australian states and territories and in any other country that recognises an Australian teaching qualification.

PROFESSIONAL RECOGNITION:

National recognition as an initial pre-service teaching qualification.





A double degree increases your skills and knowledge across two complementary learning areas giving you more career opportunities and choices. You'll study units from both courses, but the condensed program structure means it may take only 12 to 18 months longer than a single degree.

DOUBLE DEGREE	DEGREE 1 (MAJORS)	DEGREE 2 (MAJORS)
Bachelor of Arts; Bachelor of Commerce	Bachelor of Arts (Anthropology and Sociology; Chinese; Creative Writing; Geography; History; International Relations; Internet Communications; Japanese; Journalism; Literary and Cultural Studies; Professional Writing and Publishing; Screen Arts; Theatre Arts)	Bachelor of Commerce (Accounting; Economics; Finance; International Business; Marketing; Public Relations; Tourism and Hospitality)
Bachelor of Laws; Bachelor of Arts	Bachelor of Laws	Bachelor of Arts (International Relations; Journalism)
Bachelor of Laws; Bachelor of Science (Psychology)	Bachelor of Laws	Bachelor of Science (Psychology)
Bachelor of Laws; Bachelor of Commerce	Bachelor of Laws	Bachelor of Commerce (Accounting; Economics; Finance; Human Resource Management; Marketing; Taxation)
Bachelor of Science; Bachelor of Arts	Bachelor of Science (Chemistry; Coastal and Marine Science; Data Science; Environmental Biology; Geographic Information Science*; Mathematics; Physics)	Bachelor of Arts (Anthropology and Sociology; Chinese; Geography; International Relations; Internet Communications; Japanese; Professional Writing and Publishing)
Bachelor of Science; Bachelor of Commerce	Bachelor of Science (Chemistry; Coastal and Marine Science; Data Science; Environmental Biology; Geographic Information Science*; Mathematics; Physics)	Bachelor of Commerce (Economics; Entrepreneurship; Finance)
Bachelor of Science (Applied Geology); Bachelor of Commerce	Bachelor of Science (Applied Geology)	Bachelor of Commerce (Finance)
Bachelor of Science (Applied Geology); and Bachelor of Science	Bachelor of Science (Applied Geology)	Bachelor of Science (Environmental Biology; Geographic Information Science; Geophysics)
Bachelor of Science (Computer Science); Bachelor of Engineering (Honours)	Bachelor of Science (Computer Science)	Bachelor of Engineering (Honours) (Computer Systems Engineering; Electronic and Communication Engineering; Mechatronic Engineering)
Bachelor of Science (Physics); Bachelor of Engineering (Honours)	Bachelor of Science (Physics)	Bachelor of Engineering (Honours) (Electronic and Communication Engineering)
Bachelor of Science (Psychology), Bachelor of Commerce (Marketing)	Bachelor of Science (Psychology)	Bachelor of Commerce (Marketing)

Bachelor of Science (Health Promotion); Bachelor of Science (Health and Safety)	Bachelor of Science (Heath Promotion)	Bachelor of Science (Health and Safety)
Bachelor of Science (Nutrition); Bachelor of Science (Health Promotion)	Bachelor of Science (Nutrition)	Bachelor of Science (Health Promotion)
Bachelor of Engineering; Bachelor of Commerce	Bachelor of Engineering (Chemical Engineering, Civil and Construction Engineering, Mechanical Engineering; Metallurgical Engineering; Mining Engineering)	Bachelor of Commerce (Accounting; Economics; Finance; Management)
Bachelor of Engineering (Chemical Engineering); Bachelor of Science	Bachelor of Engineering (Chemical Engineering)	Bachelor of Science (Chemistry; Extractive Metallurgy)
Bachelor of Engineering (Civil and Construction Engineering); Bachelor of Science	Bachelor of Engineering (Civil and Construction Engineering)	Bachelor of Science (Mining)

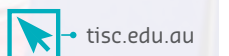
\*The Geographic Information Science major can only be studied with the Geography major.  
Please note: Combinations are subject to timetabling, which may affect availability and the duration of the course.  
Please call Future Student Services for further information. Tel: 1300 222 888

Alternatively, you may be able to take an interfaculty second major, subject to availability.





## ADMISSION CRITERIA AND PATHWAYS: DOMESTIC STUDENTS



### AM I A DOMESTIC STUDENT?

You are a domestic student if you are:

- an Australian citizen or Australian dual citizen
- a permanent resident of Australia
- a holder of an Australian permanent humanitarian visa
- a New Zealand citizen.

[fees.curtin.edu.au/scheduledfees.cfm](https://fees.curtin.edu.au/scheduledfees.cfm)

### ADMISSION CRITERIA

To be eligible to study a bachelor degree at Curtin, you normally need to have achieved the following:

- graduated from high school and met the requirements of the Western Australian Certificate of Education (WACE) or equivalent interstate high school certificate
- obtained an ATAR equal to or above the minimum or guaranteed score of the course you wish to study
- achieved a scaled mark of at least 50 in one of the following:
  - English ATAR
  - Literature ATAR
  - English as an Additional Language/ Dialect ATAR
- achieved a scaled mark of at least 50 in each prerequisite for your chosen course.

Year 12 WACE results are valid indefinitely. Scores dating back to 1992 can be converted to the current ranking using the TISC ATAR calculator.

[tisc.edu.au/calculator/atar-calculator.tisc](https://tisc.edu.au/calculator/atar-calculator.tisc)

Entry is competitive and you may need to achieve scores higher than the minimum ATAR requirements for admission to some courses. You can apply to Curtin before you sit your WACE exams.

Some courses have additional admission criteria such as an interview, or submission of a portfolio, police clearance or Working with Children Check.

### FLEXIBLE ENTRY OPTIONS

If you don't meet the admission criteria, there are other options you can take to qualify for a place on a bachelor degree course.

#### PORTFOLIO ENTRY

Portfolio entry is available for selected degree courses. You must demonstrate equivalence to Curtin's ATAR admission criteria through submitting a portfolio of work. Your portfolio should evidence your academic achievements, qualifications and ability.

[curtin.edu.au/portfolio-entry](https://curtin.edu.au/portfolio-entry)

#### UNIREADY ENABLING PROGRAM

Successfully completing this short pathway program qualifies you for a range of undergraduate Curtin courses.

[curtin.edu.au/uniready](https://curtin.edu.au/uniready)

### INDIGENOUS TERTIARY ENABLING COURSE

A six-month course designed to fast-track Indigenous students into mainstream university degree programs. The course promotes a strong sense of Indigenous identity and values your cultural background.

You must have a secondary education of year 11 and above, and/or a relevant TAFE qualification.

#### ENABLING COURSE IN SCIENCE, ENGINEERING AND HEALTH

The Enabling Course in Science, Engineering and Health runs for one year and starts in February, although in some cases you may start in July. It's designed for students who don't meet the minimum university entrance requirements, but who wish to

undertake foundation studies that can lead to a degree course at Curtin with specific subject prerequisites.

Successfully completing this enabling program will guarantee you a place in a science course in the Faculty of Science and Engineering or the Bachelor of Science (Health Sciences) offered in the Faculty of Health Sciences.

A number of places are also available on a competitive basis in engineering, medical radiation science, occupational therapy, pharmacy, physiotherapy, and speech pathology for high-achieving students.

This program is free for Australian and New Zealand citizens, and Australian permanent residents. It is not available to international students.

### INDIGENOUS PRE-MEDICINE AND HEALTH SCIENCES ENABLING COURSE

This free, one-year enabling course is for people of Aboriginal or Torres Strait Islander descent who don't meet the entry requirements for a health sciences course, including medicine.

Two of the units you will study in the enabling course will be credited to your undergraduate health sciences course upon successful completion.



**Shahmir Rind**  
Indigenous Pre-medicine and health sciences enabling course

*"Through this course I have learned how to learn again. It has been a long time since I was at school, so gaining study skills, writing at an academic level and learning how to conduct quality research has been great. The staff within the Centre for Aboriginal Studies (CAS) have been a highlight – they have supported me every step of the way and have given me the tools and skills I need to succeed.*

*When I graduate, I want to gain entry into Curtin's medicine course. I want to continue my work with regional communities, but this time as a doctor. I have seen and experienced firsthand the disadvantages some communities in Western Australia face when it comes to accessing healthcare.*

*My advice to other students would be to treat your studies like a full-time job. Be on campus as much as you can be. Find a space on campus you are comfortable to work in and utilise it as much as possible. Start your assignments as soon as you get them. Get to know your tutors. Ask for help when needed and don't be afraid to access all the support services that are available to you."*





## ADMISSION CRITERIA AND PATHWAYS: DOMESTIC STUDENT

### AQF QUALIFICATIONS

You may meet the admission criteria if you have evidence of English language proficiency and have received a TAFE or other Australian Qualification Framework award.

### CURTIN COLLEGE

Located on Curtin's main campus in Bentley, Perth, Curtin College offers various qualifications, ranging from certificate IV to diploma level, that can help you gain eligibility to apply to Curtin.

Tel: +61 8 9266 4888

[curtincollege.edu.au](http://curtincollege.edu.au)

### STAT

The Special Tertiary Admissions Test (STAT) is a national test for people who are at least 20 years of age by 1 March (semester one intake) or 1 August (semester two intake) of the intended year of study. The STAT assesses a range of competencies considered important for success in tertiary study. To be meet the admission criteria for Curtin, you will need to achieve a score of at least 135 in either the Quantitative (Q) and/or Verbal (V) components, and at least 140 in Written English (WE).

[tisc.edu.au](http://tisc.edu.au)

### BRIDGING COURSES FROM OTHER AUSTRALIAN UNIVERSITIES

Completing a bridging course offered at another Australian university that satisfies entry into that university, and is at least one semester in duration, may satisfy Curtin's entry requirements.

### OPEN UNIVERSITIES AUSTRALIA

Open Universities Australia (OUA) can provide you with the opportunity to learn, regardless of your educational background. Most courses do not have entry requirements. If you successfully complete two degree-level units through OUA and satisfy Curtin's English competency requirement, you may qualify for entry to Curtin.

This includes certificates, diplomas and advanced diplomas, such as those offered through Curtin College, Tuart College, Canning College and other training or education institutions.

[futurestudents.curtin.edu.au](http://futurestudents.curtin.edu.au)

### CREDIT FOR RECOGNISED LEARNING

You may be able to complete your degree in a shorter amount of time. At Curtin we grant credit for units within your course based on your previous study or work experience. It is called credit for recognised learning.

### NOT SURE WHICH PATHWAY IS BEST FOR YOU?

Have a chat with a Curtin Student Advisor if you need advice.

Call us on 1300 222 888, or visit [futurestudents.curtin.edu.au](http://futurestudents.curtin.edu.au) to book an appointment.

## HOW TO APPLY



[futurestudents.curtin.edu.au](http://futurestudents.curtin.edu.au)

### HOW TO APPLY FOR FIRST SEMESTER

#### 1. APPLY THROUGH TISC ONLINE

Head to [tisc.edu.au](http://tisc.edu.au) to apply online.

#### 2. CHOOSE YOUR PREFERENCES

Choose your preferred courses from any of the four WA public universities.

You can list up to six preferences. We recommend you list at least two. Consider whether you meet the prerequisites for your selected courses and whether you meet our entrance requirements.

List the courses in order of what you want to do most. Offers are made based on eligibility and preference.

If you change your mind about your chosen courses, you can change your preferences after submitting your application (subject to closing dates) without incurring a fee.

#### 3. SUBMIT YOUR APPLICATION

Complete and submit your application before the application closing date. Closing dates are available on the TISC website.

### CHANGING COURSES

If you start your studies at Curtin and feel that your chosen course isn't right for you, there may be options to switch to a different course. You may also apply to take a leave of absence to reassess personal or career plans.

### APPLYING FOR SECOND SEMESTER INTAKE

Some courses allow you to begin studying in second semester. Please check with Future Students Services to confirm whether your preferred course has a mid-year intake.

If you want to apply for mid-year entry, you need to apply through Curtin's online application system rather than through TISC.

Find your preferred course at [courses.curtin.edu.au](http://courses.curtin.edu.au) and hit 'Apply - find out how'.





Before you start your course, consider the financial implications and find out how much it will cost.

## TUITION FEES

Curtin offers Commonwealth-supported undergraduate places to students who are Australian citizens, New Zealand citizens and Australian permanent resident visa holders.

A Commonwealth-supported place is a subsidised higher education enrolment. The Australian Government subsidises these places by paying part of your fees directly to Curtin. The subsidy amount is not a loan and you don't have to pay the subsidy amount back. You only pay the remainder of the fee, known as the 'student contribution amount', for each unit you're enrolled in.

Our fees and charges web page shows the required student contribution for every unit. You can use the online fee calculator to help you estimate the total cost of your course. You can add up the unit costs, or you can calculate the cost for a semester or year of study.

Your student contribution must be paid by the requested date, called the 'census date'.

[fees.curtin.edu.au](https://fees.curtin.edu.au)

Commonwealth-supported places are not available to international students. International students should contact Curtin International for relevant information on fees.

[international.curtin.edu.au](https://international.curtin.edu.au)

## STUDENT SERVICES AND AMENITIES FEE

The Student Services and Amenities Fee (SSAF) is a fee that universities and other approved higher education providers may charge for student services and amenities of a non-academic nature, such as sporting and recreational activities, employment and career advice, child care, financial advice and food services. You can choose to defer all or part of your fee for the relevant year.

[fees.curtin.edu.au/amenities.cfm](https://fees.curtin.edu.au/amenities.cfm)

## OTHER EXPENSES

Tuition fees do not cover the cost of some items required for studying a particular unit or course. Examples include:

- textbooks
- incidental fees for items such as lab coats or supplies
- first aid courses
- police clearance or Working With Children Check
- field trips.

You may also incur day-to-day expenses, including parking, transport, food and recreation costs.

[futurestudents.curtin.edu.au/school-leavers/what-it-costs.cfm](https://futurestudents.curtin.edu.au/school-leavers/what-it-costs.cfm)

## HECS-HELP

HECS-HELP is a loan scheme available to:

- Australian citizens
- permanent humanitarian visa holders
- eligible New Zealand Special Category Visa holders.

The HECS-HELP loan scheme allows you to defer paying your required student contribution for tuition fees until you earn a salary above a minimum threshold. Once the threshold is reached and exceeded, you begin repaying your loan as a percentage of your wage to the Australian Taxation Office.

To apply for the loan, you must submit a request for Commonwealth Support and HECS HELP form with a valid tax file number by the census date of the relevant study period.

Holders of other types of Australian permanent residency visas must pay their student contributions up-front and in full by the census date each study period.

Tax invoices are available electronically. They are called elnvoices and can be accessed once your enrolment has been completed. The elnvoice shows your enrolment schedule for the relevant study period and will state the payment due date.

[studyassist.gov.au](https://studyassist.gov.au)

## SA-HELP

SA-HELP is a loan scheme that helps you to pay for all or part of your student services and amenities fee (SSAF), provided you are an Australian citizen or a permanent humanitarian visa holder.

If you use SA-HELP, the amount will be added to your accumulated HELP debt. You can take out the SA-HELP loan even if you don't wish to take out any other HELP loan.

[studyassist.gov.au](https://studyassist.gov.au)

## CENTRELINK

Centrelink may provide financial assistance to Curtin students who are Australian residents and studying full-time, but you are assessed on a case-by-case basis and must meet other specific criteria. Services to students include:

- Youth Allowance
- Abstudy
- Austudy
- rent assistance
- health care card
- student financial supplement.

[humanservices.gov.au/customer/dhs/centrelink](https://humanservices.gov.au/customer/dhs/centrelink)

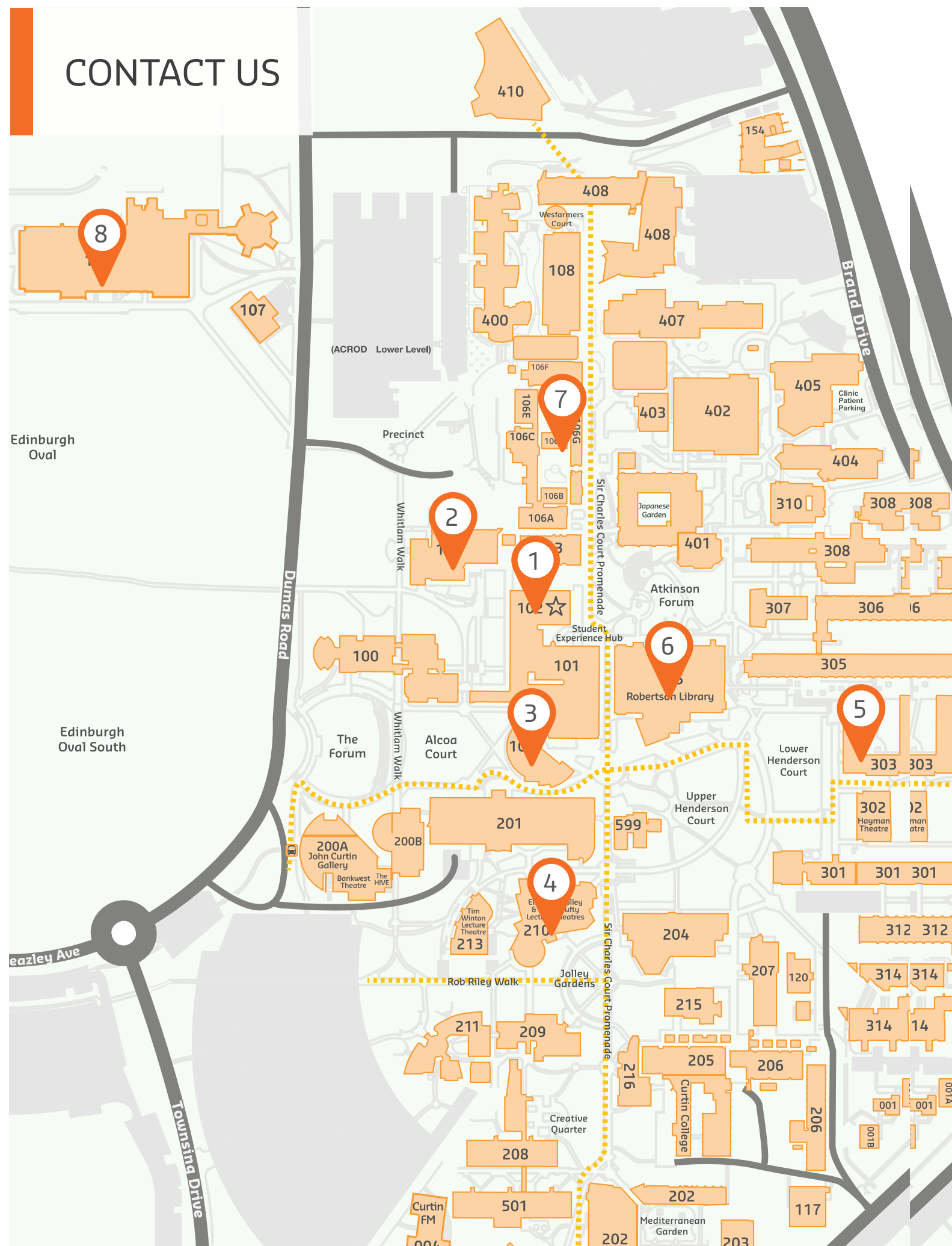
## CURTIN STUDENT GUILD

The Guild provides comprehensive education, welfare and social services to its members. If you become a full Guild member, you can take advantage of a number of discounts both on and off campus. In conjunction with the Curtin Bookshop, the Guild offers a number of bookshop grants to students in need of financial assistance. The Guild also offers tax and budgeting advice.

[guild.curtin.edu.au](https://guild.curtin.edu.au)



# CONTACT US



## 1. CURTIN CONNECT

The first point of contact for all queries from current and future Curtin students and parents. You can speak to experts on courses, admissions, housing, enrolment and careers.

## 2. 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.

## 3. HEALTH SERVICES CENTRE AND COUNSELLING SERVICE

The centre includes a doctor's surgery where you can make appointments with either a doctor or nurse. Curtin students also have access to professional psychologists and social workers.

## 4. ELIZABETH JOLLEY LECTURE THEATRE

'Liz Jolley' is the largest lecture theatre on campus. The late Elizabeth Jolley was one of Australia's most celebrated authors and a lecturer in the Faculty of Humanities.

## 5. THE LEARNING CENTRE

The Learning Centre offers a variety of free programs to hone your academic performance.

## 6. 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 hours a day, seven days a week.

## 7. 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.

## 8. CURTIN STADIUM

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

## FUTURE STUDENTS

The Future Students team can answer your questions about studying at Curtin. Course advisors are available via phone or email, or visit Curtin Connect (Building 102) for a face-to-face conversation.

The team hosts information sessions throughout the year for prospective students of any age, career counsellors and parents. You may see the team giving presentations at your school. They also arrange interactive campus visits where you can get a real taste of university life and talk to student ambassadors from Curtin.

Tel: 1300 222 888  
Fax: +61 8 9266 3331

Email: [futurestudents@curtin.edu.au](mailto:futurestudents@curtin.edu.au)

Web: [futurestudents.curtin.edu.au](http://futurestudents.curtin.edu.au)

## JOIN THE CONVERSATION!



[facebook.com/curtinuniversity](https://facebook.com/curtinuniversity)



[@CurtinUni](https://twitter.com/CurtinUni)



[@curtinuniversity](https://www.instagram.com/curtinuniversity)



[youtube.com/curtinuniversity](https://youtube.com/curtinuniversity)



[studentbox.com.au](https://studentbox.com.au)



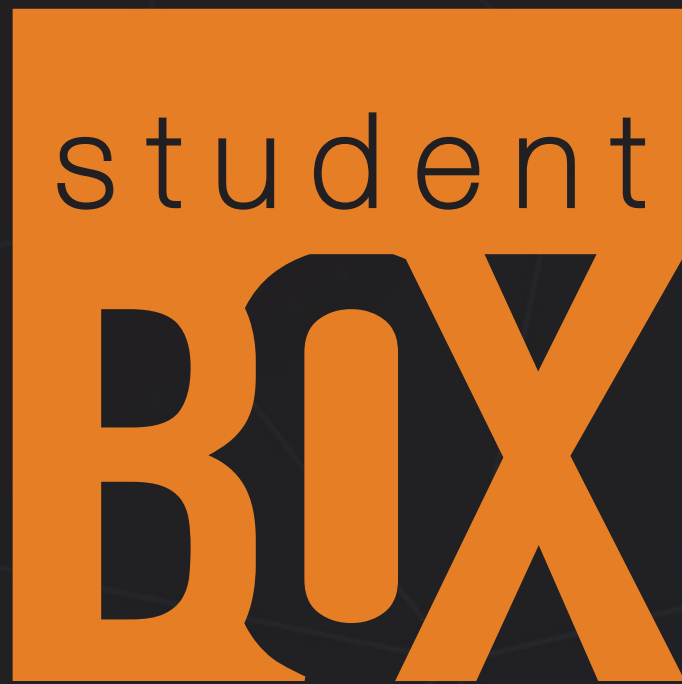
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This publication is intended for Australian citizens and permanent residents only. Some information contained in this publication may not be applicable to international students.

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Studentbox is a place where you can chat with other year 10, 11 and 12s, while grabbing study tips and great advice from university advisors.

[studentbox.com.au](http://studentbox.com.au)



**SUNDAY  
29 JULY  
10AM - 4PM**