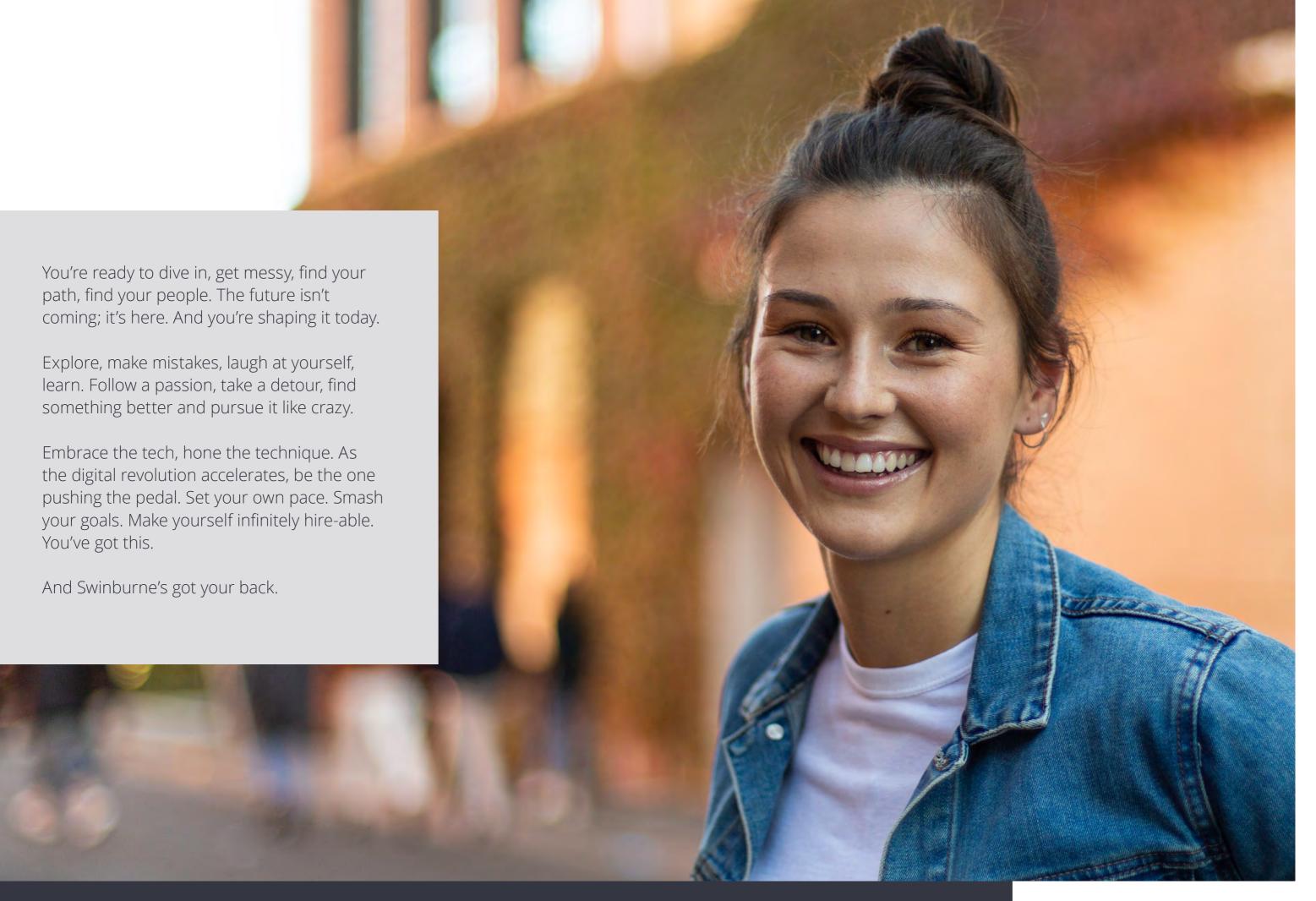


SWINBURNE UNIVERSITY OF TECHNOLOGY



# 2022 UNDERGRADUATE DEGREES AND PATHWAYS

**COURSE GUIDE** 



# MAKING OUR MARK EVERYWHERE WE GO

# With a degree from Swinburne, you can go anywhere in the world.

Melbourne. Milan. Malaysia. Our graduates are spread around the globe and work for some of the most dynamic organisations, from startups to not-for-profits to multinationals.

A degree from Swinburne means you'll have the prestige of a globally renowned university paired with the confidence that comes from genuine workplace experience.

When you graduate, you'll become one of thousands of Swinburne graduates around the world who are writing their own success stories.

And that's all because a degree from Swinburne sets you up for life.

MAKING OUR MARK

# TOP-RANKED STUDENT CITY

In Australia — and third best in the world.

(QS Best Student Cities Ranking, 2019).

**5%** 

Of the world's higher education business schools, accredited by AACSB.

(Association to Advance Collegiate Schools of Business).



Overall Undergraduate Experience.

(Good Universities Guide, 2021).

2022 UNDERGRADUATE COURSE GUIDE



BUSINESS INFO

INFORMATION TECHNOLOGY

**82.3**%

of our grads find

DESIGN

ENGINEERING

EDUCATION

PSYCHOLOGY

9.3%

What our grads earn over the Australian average.

HIGHEST

IN VICTORIA

SWINBURNE UNIVERSITY OF TECHNOLOGY

jobs within 4 months of finishing their course. 83.9%

of our grads find jobs within 4 months of finishing their course.

\$68K

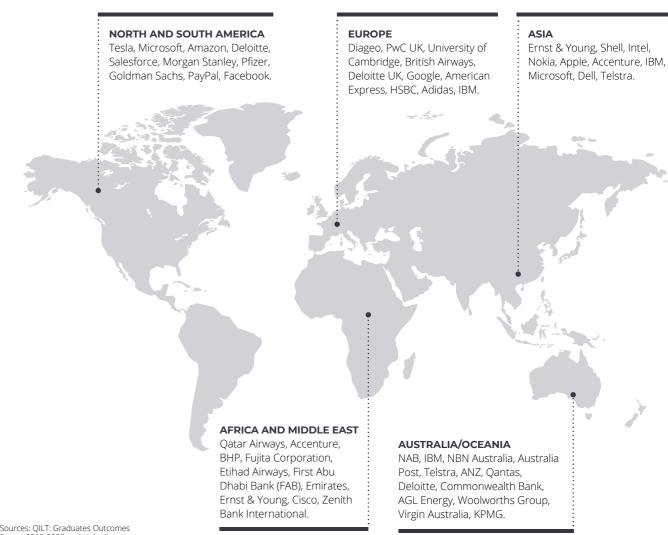
is the average starting salary for our graduates. 92.3%

of our grads find jobs within 4 months of finishing their course. **11.6%**What our grads

What our grads earn over the Australian average.

> HIGHEST IN VICTORIA

# Our grads work for the biggest and best



Survey 2018-2020 and LinkedIn

MAKING OUR MARK



# **DIRECTING THE ACADEMY AWARD-NOMINATED LION**

Garth Davis wears his success lightly. Having your first feature film nominated for six Academy Awards – including Best Picture – is no mean feat. Yet Davis says directing was not part of his original plan. Instead, it turned out to be a natural progression from his studies in graphic design and subsequent career in advertising.

His first directing gigs were for TV commercials – earning him a coveted Gold Lion at Cannes – before moving into film and television and making his impressive feature debut with Lion.

The Swinburne graduate says what he learnt while studying has been formative to his continued creative success. "Those four years at Swinburne completely changed my life."

He credits his teachers with imparting two essential lessons: the importance of making mistakes, and of being open to criticism. "Both of these lessons have formed the backbone of my creative approach."

It's an approach that's taken this Swinburne student all the way to Hollywood.

# PREVENTING FRAUD **WITH FORENSICS**

For Rosie Rhyder, studying IT at Swinburne meant a clear pathway into the career of her dreams.

Taking advantage of the connections she made on her industry placement at PwC Australia, Rosie is now a Senior Associate there, specialising in forensic data analysis.

It may sound like something out of a Bond movie, but data serves an important function for corporate giants like PwC: detecting (and preventing) fraud. "As a consultant, the projects I work on can vary greatly. My focus is on using data wrangling skills combined with a forensic mindset to understand, analyse, and present data."

Rosie says her studies at Swinburne provided the foundation she needed for career success. "Studying business information technology at Swinburne has really been life-changing for me. The small cohort of high-achieving students – who are still my friends – the course structure, the work placements, and the dedicated staff all played a big role in my success."

44

The course structure, the work placements, and the dedicated staff all played a big role in my success.



This course is now known as the Bachelor of Business Information Technology (Professional)

2022 UNDERGRADUATE COURSE GUIDE SWINBLIRNE LINIVERSITY OF TECHNOLOGY

<sup>\*</sup> This course is no longer available

# **STOCKED IN OVER 20 COUNTRIES**

What do some of the hottest stars in Hollywood have in common? They each have their very own MOUS Fitness Bottle, created by two Swinburne graduates. When the innovative product was selected to go in the 2017 Oscars gift bag, the bottle became a worldwide hit.

Like many gym-goers, Jarahad and Matthew used protein shakers while on the go. But they grew tired of a few recurring issues: the bottles would leak, supplements would get stuck in corners of the cup, and they were difficult to clean, which led to bacteria growth.

Drawing from their respective engineering disciplines (Jarahad did product design, Matthew – mechanical), the duo came up with a solution: a clever round-bottomed design.

Skills learnt at Swinburne were essential to the creative development process. "Critical skills developed at Swinburne were constantly used," says Jarahad, "[including] sketching skills, material analyses, environmental analyses, manufacturing methods, product testing and development."

MOUS can now be found in stockists around the world.





#### JARAHAD VALERI AND MATTHEW KEMPE CO-CREATORS OF MOUS

Both studied Bachelor of Engineering (Honours)

FITNESS BOTTLE



# AUSTRALIA'S FIRST NOBEL PEACE PRIZE

**DIMITY HAWKINS AM**CO-FOUNDER OF ICAN, WINNER OF AUSTRALIA'S FIRST NOBEL PEACE PRIZE

Bachelor of Arts (Honours) majoring in Politics and current PhD student

A lifelong activist, Dimity has always pursued the goal of nuclear weapon disarmament. She co-founded ICAN, the International Campaign to Abolish Nuclear Weapons. In 2017, ICAN worked with governments around the world to advocate for the Treaty on the Prohibition of Nuclear Weapons in the United Nations, where 122 countries voted in its favour.

Dimity says that what she learnt at Swinburne really built her abilities in writing, research and critical thinking, key skills when it comes to her complex work. And for their efforts, ICAN was awarded a Nobel Peace Prize. However, she knows that the fight is far from over – 69 nations abstained from the vote, including countries with nuclear weapons and members of NATO. Yet she looks forward to every coming challenge.

In 2019, Dimity was recognised in the Queen's Birthday Honours List for her significant service to the global community as an advocate for nuclear non-proliferation and disarmament.

8 **ALUMNI** SWINBURNE UNIVERSITY OF TECHNOLOGY



# THE SWINBURNE **ADVANTAGE**

We're a university for the digital age (the one happening now and not going anywhere). That's why tech is embedded in everything (including, by the end of your degree, you). Pair that with a huge range of opportunities for real work experience and not only will you have the tech but also the technique to nail your post-uni job (and career).

# **Professional Purpose program**

Find out what you truly care about, plan your career around it, and take this way of thinking with you when you graduate. Turn to page 12 for the full story.

# **Adobe Creative Campus**

We're the first university in Australia to become one. For you, that means free access to over 20 Adobe Creative Cloud apps (even on your personal devices) for the whole length of your course. We're determined to get you ready for a tech-rich future, because a digitally-literate you equals a highly hireable you.

# Work placement opportunities for all students

Choose how you want to test-drive your professional purpose. Do a degree with a built-in placement year, sign up for an internship, join a student consultancy...the options are many! Our Careers and Employability centre has experienced career counsellors who can help review your CV, run practice interviews and more. And check out SwinEmploy, our online database for professional, part-time and casual jobs.

# Global work and study options

Exit your comfort zone. Live in someone else's shoes. Become a citizen of the world! It's an experience that will boost your CV (and your level of wisdom).\*

\*Please note that overseas work and study tours are dependent on government travel advice, and may be cancelled or modified accordingly.

# REAL INDUSTRY EXPERIENCE

Practical experience will help you get a job. And the more you can score before you graduate, the closer you'll be to cracking your career goals. Boost your CV and get that all-important foot in the door with Swinburne's work-integrated learning opportunities.



#### **PROFESSIONAL DEGREES**

Professional degrees include a compulsory, paid full-time 12-month work placement, usually undertaken in third year, before your final year of classes. They're available to students who have just completed an Australian Year 12 program in the year prior and they offer invaluable skills attractive to future employers. Look for degrees with (Professional) in the title.

Duration	Embedded	Paid	Credit
12 months	Yes	Yes	Yes



#### **ACCREDITATION PLACEMENTS**

Our accreditation placements are embedded in many degrees that teach very specific skills. Depending on your course, these placements may be paid or offer credit. You'll graduate knowing you have the experience you need to become professionally accredited for the career you want.

Duration	Embedded	Paid	Credit
Varios	Yes	No	\/aries



#### **COMMUNITY- AND INDUSTRY-LINKED PROJECTS**

Problem-solving is an asset for any career, so here's your chance to undertake real-life industry projects as part of your course. Challenges could include research projects, concept development or internal briefs. You'll earn credit while developing your investigative side to the fullest.

Duration	Embedded	Paid	Credit
1-2 semesters	Yes	No	Yes



Immerse yourself in a professional organisation related to your study and put the skills you've learned into practice. Spend six or 12 months in paid full-time work as an integrated component of your course. You'll gain valuable experience to enhance your CV, and establish a professional network that could kick-start your career.

Duration	Embedded	Paid	Credit
6 or 12 months	No	Yes	Yes



#### **OVERSEAS STUDY TOURS**

Travel to a new country, gain unique access to international companies, and make a difference to the communities you visit. Depending on government travel restrictions, overseas study tours usually occur over Summer and Winter breaks and are led by experienced Swinburne academics.

Duration	Embedded	Paid	Credit
2-4 weeks	No	No	Yes



Get a taste of your future career during an internship with a leading employer in your area of study. Spend 120 to 140 hours working in your field, either part-time during semester (at one or two days per week, with 16 to 19 days in total), or full-time during summer or winter breaks.

Duration	Embedded	Paid	Credit
16-19 days	No	No	Yes

WORK INTEGRATED LEARNING 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY **WORK INTEGRATED LEARNING** 

# IF YOU LOVE YOUR JOB, YOU'LL NEVER WORK A DAY IN YOUR LIFE. TRUE?

Introducing Swinburne's Professional Purpose program. Find more than just a career. Find a professional life you'll love, filled with meaning and purpose.

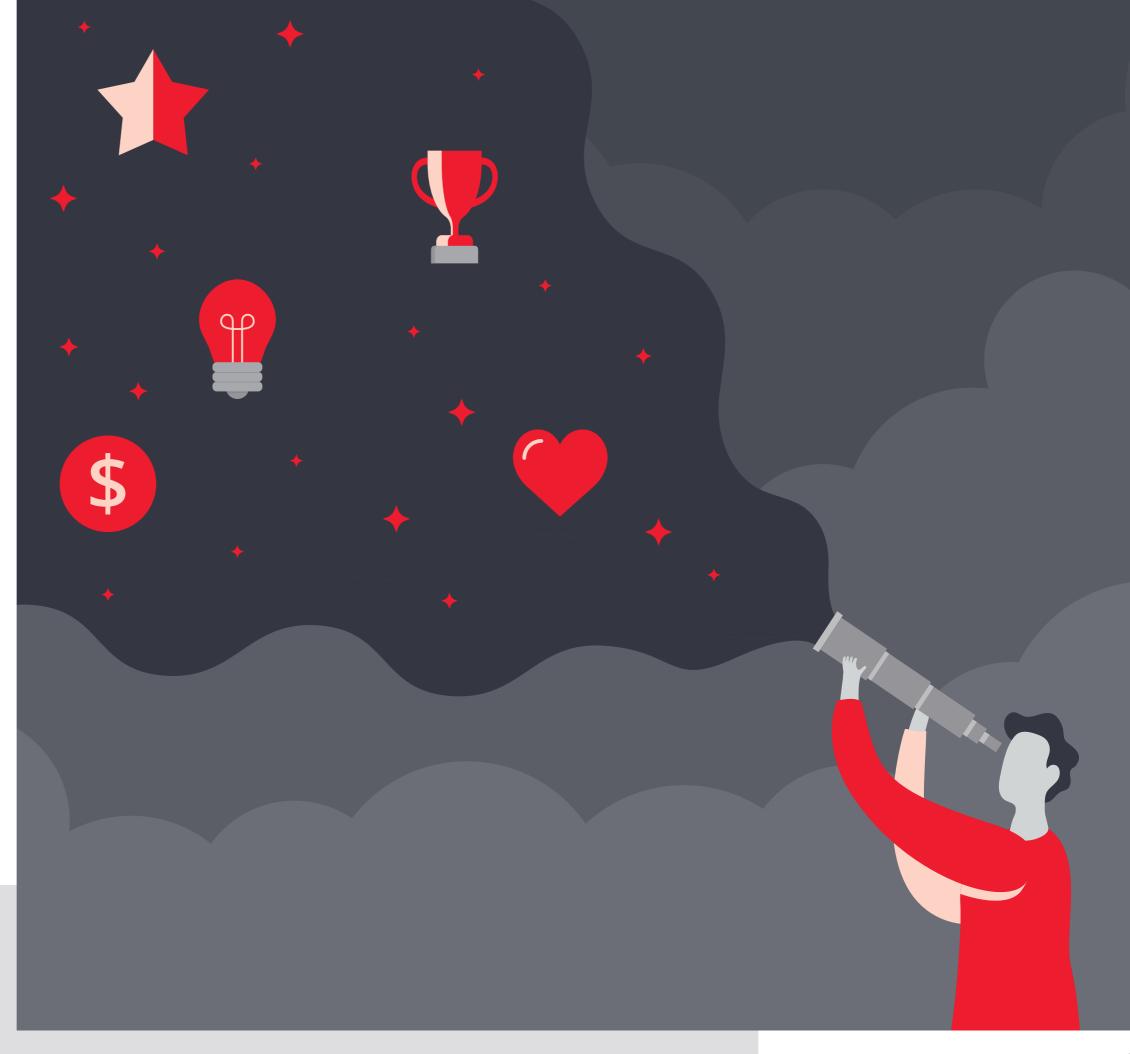
We don't expect you to know what you want to be. We expect you to dive in and find out. And that's precisely what our ground-breaking Professional Purpose program (which runs in parallel to any on-campus bachelor degree) is designed to do. Because we don't want to see you five years into a career wondering 'what am I doing here?'. We want you shouting jubilantly from the rooftops, 'Yes! This is where I belong.'

In your first year, you'll explore your purpose and distil what really matters to you. In your second year, you'll clarify your professional purpose and align it to the opportunities in the professional world. In your final year, you'll focus on pursuing your professional purpose by turning your plans into reality. It's the sort of thinking you can carry with you throughout your career... a secret weapon that will keep you on the path you choose.

Plus, the program is designed to build your resilience, optimism, motivation and social connections. It only takes around three hours a year to complete and it's delivered in a convenient mix of online modules and interactive workshops. What's not to love?

\*Not studying an on-campus bachelor degree but still want to find your professional purpose? We're working on it. We'll be extending this offering to a wider audience as soon as we can.

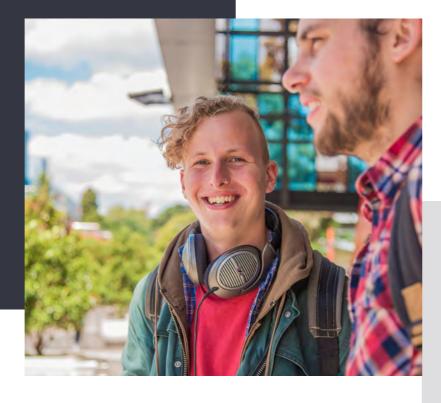
The program is designed to build your resilience, optimism, motivation and social connections.



# WHAT'S RIGHT FOR ME: CERTIFICATE, DIPLOMA OR DEGREE?

The beauty of choosing a university like Swinburne is that you get options. You can jump in to a standard three-year degree, you can undertake an apprenticeship, you can dip your toe in the water with a certificate or diploma then progress to higher education or go straight into work. You can even start your study journey now and go on to postgraduate study – like a master or PhD – down the track.

There are so many options at Swinburne, it's just a matter of choosing what's right for you.



# **Certificates and diplomas**

Swinburne has been offering TAFE qualifications for more than 100 years. From apprenticeships to courses in engineering, IT, health, business and more, we've got you covered. Many of our vocational courses fall under the banner of 'nationally recognised training', which means they have standardised curriculums that are recognised and respected around Australia.

#### **CAREER PROGRESSION**

Gain skills that are in demand and get your hands on the latest tech and equipment used in industry. You'll graduate prepared to get a job, progress to the next level in your career or go on to higher education.

#### **APPRENTICESHIPS**

A Swinburne apprenticeship is a partnership between you, your employer and Swinburne. Your employer will teach you on the job while Swinburne provides the formal training. Meaning you get paid while earning a qualification!

#### **Degrees**

Learn from industry experts and embrace work-based learning.

#### STANDARD DEGREES

Our standard degrees are anything but. They're packed with practical skills, taught by experts in their fields and designed to give you an edge. They're also some of the most flexible degrees around (see page 24). Sharpen your focus with a major, which will become your primary area of study.

#### **DEGREES WITH HONOURS**

In some degrees, you can take on a fourth year to dive more deeply into your major area and develop your research skills. Many of our degrees, including some in design, engineering and psychology, have an integrated honours year.

#### **DOUBLE DEGREES**

Double degrees are a great way to broaden your study experience and are highly respected by employers. Generally, they only add one extra year to a standard degree – so you could get six years' worth of study in four!

# **Degree pathways**

Don't have the qualifications to enrol directly in a bachelor degree? Here are some Plan Bs that will get you into your Plan A.

#### **UNILINK DIPLOMAS**

Not sure if jumping straight into a degree is for you? Or worried about not getting the ATAR you need? Generally equivalent to eight units of study (usually one year full-time), UniLink diplomas offer a more supportive style of learning and can provide a pathway to the second year of a related bachelor degree.

#### MATHSLINK

Didn't do enough maths to get into your preferred Swinburne course? MathsLink is your answer. It's a bridging program for students who require Units 3 and 4 Mathematical Methods or Units 3 and 4 Further Mathematics to study at Swinburne. See page 124 for more.

QUALIFICATION	CERTIFICATE	DIPLOMA	ADVANCED DIPLOMA OR ASSOCIATE DEGREE	DEGREE	PROFESSIONAL DEGREE	DEGREE WITH HONOURS	DOUBLE DEGREE
Duration	Varies. From 10 weeks to 3 years.	Typically 1 year (Ranges from 6–24 months)	Typically 2 years (Ranges from 6–24 months)	Typically 3 years FT (4 years for law and education)	4 years FT	4 years FT	4–6.5 years FT
Work experience	Work placements and projects, and workplace simulations.	Work placements and projects, and workplace simulations.	Work placements and projects, and workplace simulations.	Options include professional placements, professional internships, accreditation placements, industry study tours and industry-linked projects.	12 month paid professional placement embedded in course.	Options include professional placements, professional internships, accreditation placements, industry study tours and industry-linked projects.	Options include professional placements, professional internships, accreditation placements, industry study tours and industry-linked projects.
Financial considerations	<ul> <li>VET Student Loan</li> <li>Skills First</li> <li>Concessions</li> <li>Free TAFE for Priority Courses*</li> <li>JobTrainer**</li> </ul>	<ul> <li>VET Student Loan</li> <li>Skills First</li> <li>Concessions</li> <li>Free TAFE for Priority Courses*</li> <li>JobTrainer**</li> </ul>	Advanced Diploma:  • VET Student Loan  • Skills First  • Concessions  • Free TAFE for Priority Courses*  Associate Degree:  • HECS-HELP	HECS-HELP	HECS-HELP	HECS-HELP	HECS-HELP
Entry requirements	Varies. For some courses, successful completion of Year 12 or equivalent relevant work experience. For others, simply meeting the minimum age requirements.	Varies. Typically, successful completion of Year 12, equivalent relevant work experience, or completion of prior certificate.	Varies. Typically, successful completion of Year 12, equivalent relevant work experience, or completion of prior certificate.	Successful completion of Year 12. Plus, meeting ATAR requirements, prerequisite subjects and any extra requirements.	Successful completion of an Australian Year 12 program in the year prior to applying. Plus, meeting ATAR requirements, prerequisite subjects and any extra requirements.	Successful completion of Year 12. Plus, meeting ATAR requirements, prerequisite subjects and any extra requirements. Students must also maintain academic standards while at uni.	Successful completion of Year 12. Plus, meeting ATAR requirements, prerequisite subjects and any extra requirements.
Best suits	Many certificates, including apprenticeships, will suit students who are interested in a trade or vocational career and wish to enter the workforce sooner. Other certificates can provide a stepping stone to pathway into a diploma or degree or help you take	Many diplomas will suit students seeking to upskill or enter the workforce sooner. Others will suit those seeking to pathway into a degree or take the next step in their career.	Students seeking to master a specific skillset who are looking for a more in-depth education than a diploma but don't require a bachelor qualification.	Students seeking a professional career who are ready for the next step in their education.	High achieving students who want to undertake one whole year of full-time work experience as part of their degree.	Students seeking a more in-depth study experience who are happy to complete a fourth year of study.	Students wishing to undertake a broad study experience across different study areas in order to achieve specific career goals.

\*Free TAFE for Priority Courses is a Victorian Government initiative that covers a select range of TAFE courses.

\*\*JobTrainer is a joint Commonwealth and State Government initiative which provides additional funding to increase access to free or low fee training places for young people and

FT = Full time study

QUALIFICATIONS 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY QUALIFICATIONS

# **OUR CAMPUSES**

### **Hawthorn campus**

Our main campus is nestled alongside the Glenferrie Road shopping precinct, where every convenience is to be found. Cheap eats, cafés, fine restaurants, a sport and recreation centre, a cinema, grocery stores and shops of every kind create an enticing environment in which to study and relax.

At Swinburne, we are constantly investing in the future. In recent years, the Hawthorn campus has undergone extensive development and refurbishment, and now features modern, world-class facilities with cutting-edge technology.

In 2014, the A\$100 million Advanced Manufacturing and Design Centre was opened. This state-of-the-art facility gives researchers and students the opportunity to use the latest manufacturing and design techniques and technologies.

The new centre has helped to cement Swinburne's reputation as a hub for research and development.

Swinburne also boasts the Advanced Technologies Centre, an elite facility that plays host to a number of excellent research spaces, including the Smart Structures Laboratory which focuses on structural engineering – the only one of its kind in Australia. And in 2019, we were named Australia's first Adobe Creative campus, meaning our students get free access to the Adobe Creative Cloud and over 20 different apps. Use it anywhere, on any device, for the entire time you're studying with us.

64

Cheap eats, cafés, fine restaurants, a sport and recreation centre, a cinema, grocery stores and shops of every kind.



# Wantirna campus

Our Wantirna campus is located in Melbourne's eastern suburbs, close to Knox City Shopping Centre.

The Wantirna campus is home to the A\$11 million National Centre for Sustainability. Wantirna focuses on delivering hands-on, practical learning experiences. Facilities include simulated classrooms for students studying children's services; practical nursing training facilities, with two 10-bed training labs; a horticultural complex featuring greenhouses, work sheds, and a specialist landscaping building; plus specialist electronic training facilities for students completing apprenticeships.

In Wantirna, we deliver courses in areas such as building, business, community services, computing, design, early childhood education, engineering, horticulture, information technology, and nursing.

# **Croydon campus**

Our Croydon campus is located in the foothills of beautiful Mount Dandenong. Eastland Shopping Centre is a quick drive, or a two-stop train journey away, providing extensive shopping and restaurant options.

At Croydon, we focus on trades training, as well as youth programs such as pre-apprenticeships and the Victorian Certificate of Applied Learning. Diploma and certificate courses can be completed in areas such as plumbing, building and construction, as well as spoken and written English.

The Croydon campus is home to the innovative A\$10 million Flexible Green Trades Complex. The complex focuses on enhancing the learning and up-skilling of builders, plumbers and other construction apprentices in green trades, alongside traditional courses. Courses and specialist building workshops that provide hands-on trades training in a realistic environment are also run here.

OUR CAMPUSES 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY OUR CAMPUSES 17

# THE TOP 10 PERKS OF BEING A SWINBURNE STUDENT

We may be biased, but we think studying at our Hawthorn campus offers one of the best uni experiences going round. Here's why.

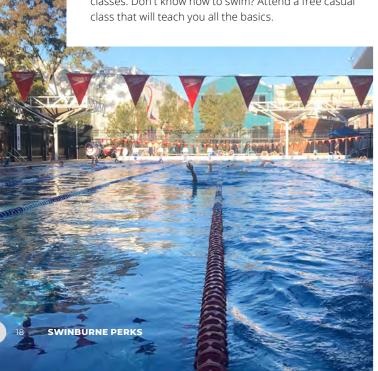


# Your own career cheerleading team

We're all about job readiness. That's why we run regular career and employability workshops and events designed to give you the best chance of turning your degree into employment. In the meantime? Have your cover letter, résumé and LinkedIn profile reviewed by our career consultants. Learn about opportunities to get hands-on experience before you graduate. Volunteer. Get involved. Go for it!

# Your own private pool, kinda

No pool? No problems. Swinburne students are sorted thanks to free use of the indoor and outdoor pools at Hawthorn Aquatic and Leisure Centre, conveniently located just around the corner from campus. You'll also get discounted membership to the centre and access to Swinburne-only group fitness classes. Don't know how to swim? Attend a free casual class that will teach you all the basics.



# Discounted movie tickets

Head to nearby Lido Cinemas on a Wednesday, flash your student ID and be rewarded with discounted movie tickets for just \$8 all day. More money for popcorn? Win.



# 4 Advice whenever you need it

Sometimes things get too much. Whether you need counselling to help you deal with a problem or financial advice to improve your money habits, Swinburne students have access to a range of services and advice. Got questions about your tax? Looking for some free legal advice? We're here to help.

# Feeling safe, day or night

We want you to feel safe when you're on campus, whether you're at an early-morning tutorial or studying late at night. Have one of our security officers accompany you anywhere on campus or to your car. Live locally? Get our free Hawthorn night bus to drop you home.

# You'll find your people

Cheese fiend? British comedy addict? Sustainability advocate? From volleyball to AFL, parkour to archery, and K-pop to tango dancing, Swinburne boasts a diverse array of clubs and societies.

Whatever your passion, there's probably a club for it.
Can't see one for you? Create it!

# 7 Cheap eats

In good news for your wallet (and stomach!), many of the delicious lunch spots around Hawthorn provide special offers for Swinburne students. Regardless, you'll be spoilt for choice with the array of budget culinary options. Think chicken and chips from Yummy Campus, rice paper rolls from Mr & Mrs Banh Mi, or fresh sushi from Sushi Hub.

# **8** Free Adobe Creative Cloud access

Translation – unfettered access to over 20 apps, including Photoshop, Lightroom, InDesign and lesser known ones that let you make 3D animations, build webpages, mobile app prototypes ... the list goes on. You can put it on any of your devices, and yes, of course you can use it for your personal projects! All this, in the name of digital literacy. All hail digital literacy, we say.

# A passport to the world

Where to go? Worldwide pandemics notwithstanding, there are travel options for everyone. Swinburne has exchange partnerships with over 100 universities around the world – from Copenhagen to Tel Aviv to Peru. If a full semester is too long to be away, there are plenty of shorter options, including overseas internships and study tours. Immerse yourself in another culture, gain a new perspective and maybe even learn a language. In most cases, you'll get credit towards your course, too. Bonus!

# 10 Location, location

Welcome to Hawthorn! Here, you'll be spoilt for choice when it comes to finding somewhere to do your reading/writing/daydreaming. Choose from heaps of great cafés (and great coffee!), beautiful green spaces like Central Gardens (right across the road), plus lots of study and lounge spaces on campus. Bonus: Glenferrie Railway Station is right on our doorstep. Too easy.



# SWINBURNE LIFE IS WHAT YOU MAKE IT

Uni isn't just about study. It's about expanding your horizons, making new friends and packing everything you can into the next few years before full-time work kicks in.

Swinburne empowers you to make the most of your uni experience. With learning and study support, of course, but with life stuff, too. From support services that will help you through hard times, to clubs, activities and events, to an overseas adventure. We recommend getting involved in all that Swinburne has to offer.

These will be some of the most memorable years of your life. At Swinburne, they'll also be the foundation that will set you on your path to success.



### **Facilities and services**

Get free access to the Adobe Creative Cloud anywhere, on any device, for the entire time you're studying at Swinburne

There's wi-fi across campus and the on-campus library and computer labs provide you with the space and resources for study outside class. There's also a range of services to support your wellbeing:

- · careers and employment
- counselling
- health
- housing
- disability support
- financial advice
- learning and study skills
- advocacy
- legal advice
- childcare.

# Learning and Academic Skills Centre

Attend free workshops and seminars, access online resources, or chat with an adviser. Develop your skills in:

- $\boldsymbol{\cdot}$  essay, report and thesis writing
- maths, statistics, physics and chemistry
- giving presentations
- researching and referencing
- making assignments look more professional
- · preparing for exams.

Visit **swinburne.edu.au/las** 

# Mathematics and Statistics Help Centre

Open five days a week during semester, here's where you can ask questions about the maths and statistics in your course.

Visit swinburne.edu.au/mash

# Safety on campus

Swinburne takes safety and security very seriously. We offer a range of services to keep you feeling safe on campus, particularly during those late-night study sessions.

- Hawthorn night bus to drop you home locally.
- Security officers on patrol and available to accompany you anywhere on campus.
- Safe@Swin app with links to emergency and support services, safety tools and campus maps.
- Safer Community team for support on issues such as bullying and harassment.

# Moondani Toombadool Centre

The MTC offers Indigenous students support with pre-enrolment, subject selection, orientation, graduation, and life beyond study – so you can feel in control of your studies and career. We make sure your Swinburne experience is positive, inclusive and successful.

#### **Swinburne Student Life**

Get involved in clubs, sports, volunteering, and leadership opportunities – all coordinated by Swinburne Student Life. We even have our very own mascot, Razor (he's hard to miss – the big red Razorback Pig) to keep you in the know about complimentary services, fun events, freebies and more.

#### **CLUBS AND SPORT**

Join a club and make life-long friends. Choose from a huge range of social, cultural, sporting and academic interests. You could even travel with your favourite sport to play at intervarsity competitions.

#### VOLUNTEERING

Give back, make new mates and be part of an amazing community. You'll score awesome experience for your CV (making yourself attractive to future employers), gain access to free accredited training, and be eligible for the Emerging Leaders Program.

#### **LEADERSHIP**

The Swinburne Student Life Leadership Program fosters leadership skills, provides opportunities to lead, and celebrates the success of student leaders. Attend talks, workshops, panels and more, and get experience that will boost your career.

#### **EVENTS AND ACTIVITIES**

There's always something happening at Swinburne – both on campus and online. From Orientation (think food trucks and live bands) to cultural celebrations, wellbeing carnivals, Pride parades, trivia nights, Netflix parties and much more.

Visit swinburne.edu.au/studentlife

# Swinburne Student Union

Enjoy the perks and support from Swinburne's student-run representation, welfare and events service. Or join in their campaigning to protect student rights and interests.

As a union member, you can get:

- free breakfasts on weekdays
- · a weekly barbecue
- free printing
- ....
- locker hirelocal discounts.
- and much more.
- · and much more

# Study Abroad with Swinburne

Trying to choose between a gap year to travel the world, or study? You don't have to give up your dreams of adventure when you choose Swinburne. In fact, most of our students are eligible for an overseas study program.

Choose from student exchange, study tours or overseas internships – the opportunities are endless.

Plus, our Swinburne travel scholarships are there to help with the financial side of things. So, no matter your situation, you have the chance to get your qualification and conquer the world while you're at it.

Visit swinburne.edu.au/abroad



Claire making the most of her study abroad experience.

202 UNDERGRADUATE COURSE GUIDE SWINBURNE LIFE

2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY

SWINBURNE LIFE

# **FINANCIAL MATTERS**

# Degrees, associate degrees and UniLink diplomas

If you are an Australian local student when you commence study, the Australian government contributes to the cost of your course. This is called a Commonwealth supported place (CSP).

You'll also contribute towards the cost of your tuition. The amount you pay depends on what units you study and the payment method you choose. Find out more at **swinburne.edu.au/degrees/fees** 

#### **HECS-HELP**

You may defer your student contribution by taking out a HECS-HELP loan. HECS-HELP is available to eligible students enrolled in a CSP. This loan can cover all or part of the student contribution amount. You are eligible for HECS-HELP if you are a Commonwealth supported student and an Australian citizen or the holder of a permanent humanitarian visa.

Under this option, the Commonwealth Government pays the loan amount directly to Swinburne. When your salary reaches the minimum repayment threshold, you will make compulsory repayments through the tax system. Visit **studyassist.gov.au** 

#### **OTHER EXPENSES**

All degree students pay a Student Services and Amenities Fee (SSAF). In 2021, the maximum fee is \$308 for a full-time student (subject to change). Students who are unable to pay the fee up-front can defer all or part of the fee through an element of the Higher Education Loan Payment, known as SA-HELP. The fee contributes to funding student services such as childcare, counselling, legal and health services, and sport and recreation.

You will also need to cover costs such as textbooks, materials, art supplies or software for your course. But you won't be out of pocket for Adobe Creative Cloud! As a Swinburne student you get free access to this industry-standard software.

# Advanced diplomas, diplomas and certificates

Your fees are made up of tuition, plus materials and ancillary fees (such as costs associated with field trips), if relevant. Government subsidised places are available to students who meet requirements such as age, citizenship/residency and prior qualifications. Visit swinburne.edu.au/diplomas/fees

#### **VET STUDENT LOANS**

Defer some or all of the cost of your course. If you receive a VET Student Loan, the Australian Government pays the loan amount directly to Swinburne on your behalf. You then repay that loan through the tax system when you earn above the minimum repayment threshold. Visit **studyassist.gov.au** 

#### SKILLS FIRST

Skills First (formerly the Victorian Training Guarantee) is a Victorian Government scheme that helps eligible students access vocational education and training.

#### CONCESSIONS

To be eligible for concessions, you must hold a current Health Care Card (HCC), Pensioner Concession Card or Veterans Gold Card, or be a dependent spouse or child of such a cardholder, and present the card (or a letter of eligibility from Centrelink) at the time of enrolment.

#### FREE TAFE FOR PRIORITY COURSES

This is a Victorian Government initiative that will pay eligible students' tuition fees in a range of TAFE courses. Visit **swinburne.edu.au/free-tafe** to view the priority courses offered by Swinburne.

#### **JOBTRAINER**

JobTrainer is a joint Commonwealth and State Government initiative that provides additional funding to increase access to free or low fee training places for young people and job seekers who have been most affected by the COVID-19 pandemic. Visit **swinburne.edu.au/jobtrainer** to view the JobTrainer courses offered by Swinburne.

**VTAC** applications

If you're a Year 12 student or you're applying for multiple courses that are listed in VTAC and start in Semester 1, you'll need to apply through VTAC.

**HOW TO APPLY** 

The application period usually opens in August and closes late September with some late applications accepted in certain circumstances. Visit **vtac.edu.au** for the most up-to-date information.

#### **CHANGE OF PREFERENCE**

You can change your original VTAC application course preferences during the multiple Change of Preference periods, which are set by VTAC. While Change of Preference is open, you can add, remove, and reorder your preferences as many times as you like. Visit **vtac.edu.au** for more information.

APPLICATION METHODS	SEMESTER 1 / FEBRUARY INTAKE	
Bachelor degree	V or D	D
Associate degree	V or D	D
Certificate IV, diploma, advanced diploma (full-time)	V or D	D
Certificate IV, diploma, advanced diploma (part-time)	D	D
Certificate III and below	D	D
Apprenticeships	Find a job and register	Find a job and register
Pre-apprenticeships	D	D

#### V VTAC | D Direct

### **Direct applications**

If you are a mature age, gap year or current university student (i.e. not a Year 12 student) and applying for just one Swinburne course, you can apply directly to us. (If you intend to apply to multiple courses or institutions, you should apply through VTAC). Keep in mind that direct applications are accepted for all intakes for all courses not listed on the VTAC website.

Visit swinburne.edu.au/apply-now

#### **INDIGENOUS STUDENTS**

Indigenous applicants are encouraged to contact the Moondani Toombadool Centre for assistance with course selection, pathway options, and applications.

Visit swinburne.edu.au/moondani

# PRE-APPRENTICESHIP, APPRENTICESHIP AND TRAINEESHIP APPLICATIONS

To apply for a pre-apprenticeship, you can apply directly to Swinburne using our online application system at

#### swinburne.edu.au/apply-now

To apply for an apprenticeship or traineeship, you must first find an employer who will take you on as an apprentice or trainee and arrange your training agreement.

#### INTERNATIONAL STUDENTS

International students (including Temporary or Provisional Residents and holders of Temporary Protection Visas) applying to study at a Swinburne campus in Australia should contact us directly.

**4** +61 3 9214 8444

swinburne.edu.au/international

# Our approach to ATARs

We believe you can reach your goals no matter your ATAR.

That's why we have options for every ATAR. The ATARs in this guide are for 2021. ATARs for 2022 will be published in the July edition of the guide. Search "Swinburne" to find our most up-to-date ATARs. Entry to some courses is based on a range of criteria, such as interview, folio or experience. Refer to VTAC for full details.

#### **GUARANTEED ENTRY ATAR**

An offer is guaranteed to students who achieve this ATAR, providing all other prerequisites are met. Students with an ATAR below the published guaranteed entry ATAR will still be considered.

#### **MINIMUM ENTRY ATAR**

This ATAR is the minimum that must be achieved to be considered for this course. Adjustment factors, such as the Special Entry Access Scheme (SEAS), apply.

#### **ADJUSTMENT FACTORS**

Previously known as "bonus points", these are used in combination with your ATAR to grant extra consideration for course entry. Adjustment factors may include relevant subjects studied at school or the SEAS for students who have experienced educational disadvantage.

Note: Some courses require supplementary application forms or have special application requirements; see individual course entries for details.

### **Scholarships**

Commencing and current students can access scholarships recognising community service, financial hardship or the need to relocate from regional areas to complete their studies. Visit **swinburne.edu.au/scholarships** for more information and conditions.

### VICE-CHANCELLOR'S EXCELLENCE SCHOLARSHIP

If you achieve an ATAR of 95 or higher and receive an offer from us, congratulations! You'll be eligible for this scholarship.

You will receive:

- $\,\cdot\,$  \$5000 per annum for the normal duration of your chosen degree
- · a one-off payment of \$2000 for an international study experience
- a guaranteed place in Swinburne's student accommodation if you live more than 80km from the Hawthorn campus (subject to academic performance and other scholarship conditions).\*
- the opportunity to join our Student Ambassador Program.

\*Please note, you will need to apply for accommodation by the required deadline.

#### INDUSTRY SCHOLARSHIP PROGRAM

If you are accepted and enrol into the Bachelor of Accounting and Business Information Technology (Professional) or the Bachelor of Business Information Technology (Professional), you'll you'll receive a prestigious industry-funded scholarship of \$40k. Eligibility criteria apply.

You will enjoy:

- \$40,000 approximately
- two twenty-week work placements with partners such as Deloitte, KPMG, PwC, Pitcher Partners, Ernst & Young, NAB and more.

FINANCIAL MATTERS 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY

# HAVE YOUR CAKE AND EAT IT TOO

Swinburne degrees are some of the most flexible around. Not every uni lets you change your major (or degree!) mid-way through. But for many of our courses, that's exactly what you can do. Because we believe in finding your path as you go. If you like the sound of options, read on!



### What's in a standard degree?

Our standard degrees are made up of 24 units of study and typically take three years full-time to complete. A unit is basically another name for a subject and you'll usually take four per semester; eight per year. These units (or subjects) largely fall into one of three categories:



#### **CORE UNITS**

Everyone enrolled in your bachelor degree (regardless of their chosen major) will need to complete these to graduate.



#### MAJOR UNITS

These specific subjects make up your specialisation – pick a major you love!

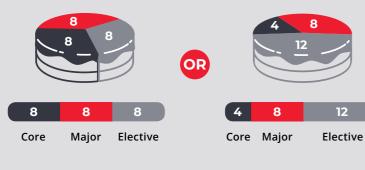


#### **ELECTIVE UNITS**

Your remaining units can come from any study area. Choose to:

- take all from your course to end up with a second major
- take all from another course to score a co-major,
- take four from one area to earn a minor, or
- mix and match based on your interests.

Every degree is different but, for most of our standard degrees, your ratio of units will be:



# How do I know what major and electives to choose?

First year is a good chance to sample subjects that appeal to you. If you have a career in mind, choose subjects related to it. If not, follow your interests – they'll lead you on a path that will become clearer in time.

#### **CASE STUDY:**

# Brittany traded media and communication for arts

Brittany enrolled in a **Bachelor of Media and Communication** with a major in Journalism. In first year, she completed four core units, two journalism subjects (majors) and two electives. For her electives, she selected two politics subjects that sounded really interesting.

Brittany ended up liking these so much that she decided to switch to a **Bachelor of Arts with a major in Politics** and International Relations.

How did she do it? The core and major units she'd already completed became a portion of the elective units of her new degree. So Brittany continued into second year of Arts and still completed her degree on time! Clever Brittany.

#### What Brittany's first year looks like...

IN	MEDIA AN	р сом	MUNICA	TIOI
	4	2	2	= 8
	Core	Major	Elective	
AF	TER SWITC	HING T	O ARTS	
	6		2	= 8
<b>\</b>	Elective	:	Major	

# **OUR COURSES**

Arts and Humanities	26
Aviation	34
Built Environment and Architecture	37
Business	42
Design	52
Education	60
Engineering	64
Film and Television	71
Games and Animation	75
Health	80
Information Technology	88
Law	96
Media and Communication	101
Nursing	107
Psychology	110
Science	114
Apprenticeships	119
Foundation Skills for Work and Study	123

24 **OUR COURSES**2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY

OUR COURSES



An arts degree is a bit like a master key – it can open a lot of doors. By understanding people and culture, history and politics, the way we connect and the way we create, you'll be able to think critically and communicate effectively. These are valuable, future-proof skills that can be transferred to almost any industry. You'll learn to see patterns in political upheaval, spot the drivers of social change, and discover how tech can help or hinder communication.

So whether you imagine yourself travelling the globe reporting on world events, writing that best-selling book, influencing or setting public policy, or improving the lives of local communities, it all begins here.

# **Professional recognition**

Our arts and humanities courses provide many opportunities to connect with leading industry organisations.

The advertising major is professionally accredited by the Media Federation of Australia.

Graduates of the digital advertising technology major may be eligible for membership of the Australian Interactive Media Industry Association.

Graduates of the journalism major may be eligible to apply for membership of the Media, Entertainment and Arts Alliance.

Double degrees may provide additional opportunities for memberships.

### **COURSES AT A GLANCE**

**Unit types** ■ Core ■ Major ■ Elective

#### Bachelor of Arts

- Advertising
- Cinema and Screen Studies Media Industries
- · Creative Writing and Literature
- Criminology Digital Advertising
- Technology · Environmental Sustainability · Social Media
- Games and Interactivity Global Studies
- History
- Indigenous Studies

**Bachelor of Criminal Justice** and Criminology

16 8

4 8 12

Journalism

Philosophy

Relations

and Editing

Sociology

Politics and International

Professional Writing

#### Certificates and diplomas in

- Arts and Communication
- lournalism
- Library and Information Services
- Professional Writing and Editing
- Screen and Media
- · Screen and Media Sports Media

In Melbourne for student support services

QILT Student Experience Survey 2018 and 2019

**HIGHEST MEDIAN SALARY IN MELB**  Graduates earn \$60.5k on average

OILT Graduate Outcomes Survey 2018-2020



**ARTS AND HUMANITIES** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY ARTS AND HUMANITIES

Bachelor of Health Science/Bachelor of Arts

Be equipped with a wide range of research and analytical skills and specialise in multiple disciplines across

health, humanities and media. Choose from a diverse range of health science and arts majors to create

biomedical science, clinical technologies, health promotion, neuroscience, and nutrition. **Career opportunities:** Recent graduates have gone on to work in government, health research,

medicine, nutrition, community work, journalism, film and advertising.

an engaging program to suit a wide range of graduate employment outcomes. Health Science majors include

COURSE	<u>(-</u> )	0	$\Diamond$	$\boxtimes$
Advertising				
Bachelor of Arts (Professional) with a major in Advertising	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Arts with a major in Advertising	3 yrs FT/6 yrs PT	Н	60^	V or D
Gain vital knowledge and skills needed to succeed in the complex and creative world of advertising. Explore effective design and strategy, as well as advertising development, implementation and evaluation. Learn how to design advertisements that not only please clients but achieve the ultimate purpose of changing the way the intended audience thinks or acts.	Prerequisites: Un a minimum study (or equivalent) or 3	score of 2	25 in Eng	
<b>Professional accreditation:</b> This degree is professionally accredited by the Media Federation of Australia. Also see Media and Communication (page 101).				
<b>Professional degree:</b> This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.				
<b>Career opportunities:</b> Marketing and sales professional, advertising account manager, advertising sales consultant, media coordinator, media planner, brand strategist, advertising consultant, media planner.				
Arts				
Bachelor of Arts (Professional)	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Arts	3 yrs FT/6 yrs PT	Н	60^	V or D
Gain a general understanding of contemporary social and cultural developments, as well as specialised knowledge in a chosen area(s) of study. Choose from a wide range of major study areas. The advertising major is professionally accredited by the Media Federation of Australia. Graduates of the digital advertising technology major will be eligible for membership of the Australasian Interactive Media Industry Association (AIMIA). Graduates of the Journalism major will be eligible to apply for membership of the Media, Entertainment and Arts Alliance (MEAA).  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Journalist, writer, novelist, public policy analyst, media and communications	Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).			
manager, social media planner, historian, social researcher, advertising officer, sociologist, welfare worker, government adviser.				
Bachelor of Arts/Bachelor of Business	4 yrs FT/8 yrs PT	Н	60^	V or D
Build strong business skills and develop your understanding of contemporary social, media and cultural developments. Choose from a wide range of arts and business majors and prepare for a career with global opportunities. Business majors include accounting, business administration, entrepreneurship and innovation, finance, financial planning, human resource management, information systems, logistics and supply chain management, management, marketing and sports management.  Professional accreditation: Swinburne Business is accredited by the Association to Advance Collegiate Schools of Business (AACSB) International. See Bachelor of Business (page 46).	Prerequisites: Un a minimum study (or equivalent) or 3	score of 2	25 in En	_
<b>Career opportunities:</b> Policy analyst, business analyst, administrator, research assistant, economist, social media planner, business journalist, sales manager, communication specialist, marketing specialist, human resource manager, entrepreneur, government adviser.				
Bachelor of Arts/Bachelor of Science	4 yrs FT/8 yrs PT	Н	65^	V or D
Learn to solve problems with a scientific mindset while building your awareness of contemporary society, communication and culture. This degree will prepare you for a career with global opportunities.  Science majors include applied mathematics, physics, chemistry, biochemistry, biochemistry, biochemistry.	Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study scored 20 in any Mathematics.		_	
environmental science. Arts majors include politics and international relations, sociology, languages, criminology, journalism, philosophy, media industries and more.				
<b>Career opportunities:</b> Sustainability manager, sustainability coordinator, social media planner, science journalist, political analyst, policy researcher and adviser, science communication specialist, physicist, biologist, environmental scientist, industrial chemist, novelist.				

# COURSE $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$

### Arts (continued)

Bachelor of Laws/Bachelor of Arts

Gain an accredited law degree with an emphasis on growth areas such as legaltech, technology and law, a	and
intellectual property law. Explore trademarks, patents and designs, copyright, the prohibition of misleading	or
deceptive conduct, and competition law. Gain an understanding of important social, cultural and internati	onal
developments through a range of arts majors. Swinburne law students also complete professional placeme	ents
and have access to the Leo Cussen Practical Legal Training program to qualify for practice sooner.	

Professional accreditation: See Bachelor of Laws (page 98) and Bachelor of Arts.

**Career opportunities:** Lawyer, public servant, media manager, communications manager, consultant, publisher, legal adviser, human rights advocate, journalist.

Diploma of Arts and Communication (UniLink)8 mths FT<br/>16 mths PTH<br/>16 mths PT

This higher education diploma provides an alternative pathway into bachelor degrees in Arts, Media and Communication, Games and Interactivity, and Criminal Justice and Criminology. Units are similar to those offered in first year university but with smaller class sizes and more time with teachers. Students can gain up to 8 units advanced standing when they pathway into their degree.

Prerequisites: Units 3 and 4: a minimum study score of 20 in English (or equivalent) or 25 in English (EAL).

5 yrs FT/10 yrs PT H 85° V or **Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

#### Cinema and screen studies

Bachelor of Arts (Professional) with a major in Cinema and Screen Studies	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Arts with a major in Cinema and Screen Studies	3 yrs FT/6 yrs PT	Н	60^	V or D

Explore moving-image traditions and theories. Develop screen-specific research and writing skills, and become prepared for roles in media organisations and across a range of creative industries. Also see Media and Communication (page 101).

**Professional degree:** This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

**Career opportunities:** Broadcast presenter, film researcher, production coordinator, community arts worker, film distribution coordinator, film festival manager, entertainment journalist.

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

# Creative writing and literature

Bachelor of Arts (Professional) with a major in Creative Writing and Literature	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Arts with a major in Creative Writing and Literature	3 yrs FT/6 yrs PT	Н	60^	V or D

Gain an understanding of creative text and popular culture in literature. Develop models for your own writing and critiquing skills in literature, while exploring subjects such as self and society.

Also see Media and Communication (page 101).

**Professional degree:** This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Journalist, publisher, writer, editor, screenwriter, producer, novelist, blogger, copywriter.

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

#### Criminology

Bachelor of Arts (Professional) with a major in Criminology	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Arts with a major in Criminology	3 yrs FT/6 yrs PT	Н	60^	V or D

Gain an understanding of why crimes are committed and how they affect society. Examine the motivations behind criminal activity and learn how to analyse trends, formulate policies and create systems to help prevent crime.

**Professional degree:** This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

**Career opportunities:** Journalist, public policy analyst, welfare worker, corrections officer, police officer, community development officer.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

8 ARTS AND HUMANITIES 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY ARTS AND HUMANITIES

4 yrs FT/8 yrs PT H 60<sup>^</sup> V or D

a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

Prerequisites: Units 3 and 4:

# COURSE

### **Criminology (continued)**

Bachelor of Criminal Justice and Criminology	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Criminal Justice and Criminology	3 yrs FT/6 yrs PT	0	60^	D

Gain insight into both the causes of crime (criminology) and the consequences and responses to criminal behaviour (criminal justice). Learn about local and global criminality, traditional approaches to crime, and emerging trends and practices. Examine how technological advances impact the sector, such as in predicting (or equivalent) or 30 in English (EAL). crime, detecting and preventing criminal behaviour, and implementing effective criminal sanctions. Graduates will be prepared for work in areas such as law enforcement, corrections, offender rehabilitation, victim support and government policy development.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English

Career opportunities: Law enforcement officer, intelligence analyst, investigator, crime analyst, victim support worker, government policy writer, corrections officer.

#### Bachelor of Psychological Sciences/Bachelor of Criminal Justice and Criminology

Learn about the causes of crime and the consequences of criminal behaviour while also gaining the skills and knowledge required to explain human behaviour and relationships.

This double degree will prepare you to work in the areas of law enforcement, corrections, offender rehabilitation and policy development. It also forms part of an Australian Psychology Accreditation Council (APAC) accredited pathway to becoming a registered psychologist. Graduates who demonstrate a high level of performance are eligible to apply for the Bachelor of Psychological Sciences (Honours) program.

Career opportunities: Psychologist (with further study), intelligence analyst, investigator, crime analyst, victim support worker, government policy writer, corrections officer, social welfare consultant, medical researcher, child safety officer, clinical worker, health officer, child development officer, security analyst.

4 yrs FT/8 yrs PT H 60^ V or D

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

### Digital advertising technology

Bachelor of Arts (Professional) with a major in Digital Advertising Technology	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Arts with a major in Digital Advertising Technology	3 yrs FT/6 yrs PT	Н	60^	V or D

Develop highly sought-after skills in digital advertising and digital marketing. Get experience using Adobe Experience Cloud, premium software used in creative agencies, marketing teams and digital consultancies around the world. Become an expert in the rapidly growing areas of digital analytics, search marketing, social media marketing and video marketing. Also see Media and Communication (page 101).

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Publisher, writer, editor, social media officer, digital advertising specialist, advertising  $\hbox{account manager, marketing coordinator, digital campaign manager, digital content manager, search marketing}$ specialist, web analytics expert.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English

(or equivalent) or 30 in English (EAL).

# **Environmental sustainability**

#### Bachelor of Arts (Professional) with a major in Environmental Sustainability 4 yrs FT/8 yrs PT H Bachelor of Arts with a major in Environmental Sustainability 3 yrs FT/6 yrs PT H 60° V or D

Develop an informed, critical approach to contemporary environmental issues. Apply ideas from philosophy, economics and sociology to urgent environmental problems and to the sustainable management of the built and natural environment. Gain the knowledge and skills necessary to become a leader in environmental sustainability.

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Environmental officer, sustainability policy adviser, sustainability engagement coordinator, environmental consultant, sustainability planning and strategy officer.

Prerequisites: Units 3 and 4:

a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

( Duration Location W Wantirna ☆ Entry ATAR RC Range of criteria **⋈** Where to apply For more information about ATARs, FT Full-time C Croydon O Online Guaranteed entry V VTAC please refer to page 23. PT Part-time H Hawthorn EV External venue D Direct # Minimum entry

(1) COURSE

### **Games and interactivity**

Bachelor of Arts (Professional) with a major in Games and Interactivity	4 yrs FT/8 yrs PT	Н	80^ V
Bachelor of Arts with a major in Games and Interactivity	3 yrs FT/6 yrs PT	Н	60^ V or D

Learn about the role of games in contemporary society and how games are developing as a cultural industry. Undertake a range of projects focusing on analog and digital games, and develop practical and creative research and communication skills in a games lab environment. Become equipped with the skills needed to work in the rapidly evolving games industry as well as the broader digital media sector.

Also see Games and Animation (page 75) and Media and Communication (page 101).

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Games developer, media producer, multimedia developer, video games developer.

# Global studies

Bachelor of Arts (Professional) with a major in Global Studies	4 yrs FT/8 yrs PT	Н	80^	٧
Bachelor of Arts with a major in Global Studies	3 yrs FT/6 yrs PT	Н	60^	V or D

Gain an understanding of the political, cultural, economic and social contexts of global issues. Learn how to deal with foreign cultures, languages, worldviews and values; gain an appreciation for cultural diversity and borderless societies; and develop an understanding about how economic trade and geopolitical lines affect our everyday lives.

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement

Career opportunities: Policy officer, social researcher, account manager, customer relationship coordinator, global business development assistant, regional sales coordinator, international student support officer.

### History

Bachelor of Arts (Professional) with a	a major in History	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Arts with a major in Hist	ory	3 yrs FT/6 yrs PT	Н	60^	V or D

Research, engage and challenge traditional ideas and practices, while developing critical skills in understanding how history is both made and written. Learn about the historical antecedents of contemporary problems, including themes of war and peace, colonialism, gender, media, and political and radical history.

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement

Career opportunities: Journalist, analyst, curator, media officer, policy adviser, public relations officer, historian, writer.

# Indigenous studies

Bachelor of Arts (Professional) with a major in Indigenous Studies	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Arts with a major in Indigenous Studies	3 yrs FT/6 yrs PT	Н	60^	V or D

Explore the contemporary and historical experience of Indigenous Australians and investigate a range of issues faced by Indigenous cultures throughout the world. Learn about Indigenous representations; resistance, activism and empowerment; Indigenous enterprise and entrepreneurship, and contemporary Indigenous communities.

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Community engagement and/or development officer, public relations executive, policy analyst, cultural liaison officer, advocacy worker, client services officer.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

Prerequisites: Units 3 and 4:

Prerequisites: Units 3 and 4:

Prerequisites: Units 3 and 4:

a minimum study score of 25 in English

(or equivalent) or 30 in English (EAL).

a minimum study score of 25 in English

(or equivalent) or 30 in English (EAL).

a minimum study score of 25 in English

(or equivalent) or 30 in English (EAL).

**ARTS AND HUMANITIES** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY ARTS AND HUMANITIES

lobbyist, mediator, politician, social commentator, writer.

COURSE	<u>C</u>	0	$\Diamond$	B
Journalism				
Bachelor of Arts (Professional) with a major in Journalism	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Arts with a major in Journalism	3 yrs FT/6 yrs PT	Н	60^	V or D
combine traditional journalistic skills with online publishing, multimedia production and the skills required for interacting with audiences, social networking and building online communities. Publish and broadcast work in online, television, radio and print outlets. Also see Media and Communication (page 97).  Professional degree: This degree extends the standard degree to include a professional placement o-major comprising a 12-month work placement.  Eareer opportunities: Journalist, publisher, writer, editor, multimedia content producer, television	Prerequisites: Ur a minimum study (or equivalent) or	score of	25 in Eng	_
oresenter, radio presenter, investigative reporter, social commentator, social media coordinator, ligital content manager, radio producer, blogger, copywriter, media advisor.				
Diploma of Screen and Media (CUA51015) – Sports Media	1 yr FT	Н		V or D
Develop the skills and knowledge to produce sports content for the screen and media industries. Gain skills in sports journalism, writing, commentary, media management, social media, photography, and audio and video production. You'll graduate with a portfolio of work to enhance your employment opportunities.  **Career opportunities:** Sports journalist, social media coordinator, video/podcast producer, project manager, campaign manager, media manager.	<b>Prerequisites:</b> Sa of Victorian Year 1 relevant work exp	2 or equ		
Certificate IV in Screen and Media (CUA41215)	1 yr FT	Н		V or D
Gain practical skills and knowledge for a future in the media industry. Explore a range of specialisations in ilm and TV, animation and broadcast journalism to help you select your preferred career path.  Career opportunities: Radio producer, News interviewer, YouTube content developer, editorial assistant.	<b>Prerequisites:</b> En is based on an apprelevant work hist criteria may also a	olicant's ory. Som	study an	d/or
Library and information services				
Diploma of Library and Information Services (BSB52115)	1 yr FT/2 yrs PT	ΗО		V or D
Gain the skills and knowledge to work in libraries or with large volumes of information in agencies, institutions and organisations. You'll learn research, cataloguing and collection management skills, use digital and social media tools and develop customer service expertise. This course is fully accredited by the Australian Library and Information Association.  Career opportunities: Access services officer, collection development officer, digital services officer, document	Prerequisites: Sa of Victorian Year 1 or relevant work e	2 or equ	iivalent,	etion
delivery officer, education assistant (museums and galleries), gallery technician, information services officer, outlined delivery officer, information services officer, outlined services outlined services officer, outlined services officer, outlined services outl				
Media industries				
Bachelor of Arts (Professional) with a major in Media Industries	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Arts with a major in Media Industries	3 yrs FT/6 yrs PT	Н	60^	V or D
Develop the knowledge and skills needed to understand and prepare for roles in the media environment. Gain experience in making connections with industry. Also see Media and Communication (page 97).  Professional degree: This degree extends the standard degree to include a professional placement to-major comprising a 12-month work placement.  Career opportunities: Communications coordinator, community relations officer, digital media manager, media buyer, media campaigns officer, media content coordinator, media policy analyst, publisher, adio/podcast producer.	Prerequisites: Ur a minimum study (or equivalent) or	score of	25 in Eng	
Philosophy				
Bachelor of Arts (Professional) with a major in Philosophy	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Arts with a major in Philosophy	3 yrs FT/6 yrs PT	Н	60^	V or D
Develop critical and creative reasoning skills, and gain an understanding of the philosophical themes and hinkers that have shaped our contemporary worldview. Undertake studies in areas including environmental philosophy, ethics, philosophical psychology, political philosophy and the history of ideas. Swinburne's Philosophy program is recognised by the Australasian Association of Philosophy.	Prerequisites: Un a minimum study (or equivalent) or	score e	of 25 in E	-
Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Journalist, public policy analyst, advocacy officer, business ethics consultant,				
obbyist, mediator, politician, social commentator, writer.				

© Location       W Wantirna       ☆ Entry ATAR       RC Range of criteria         FT Full-time       C Croydon       O Online       ^ Guaranteed entry       For more information         PT Part-time       H Hawthorn       EV External venue       # Minimum entry       please refer to page	n about ATARs,	<b>⋈ Wh</b> V VTA D Dire	AC	о ар
COURSE	<u></u>	0	$\Diamond$	R
Politics and international relations				
Bachelor of Arts (Professional) with a major in Politics and International Relations	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Arts with a major in Politics and International Relations	3 yrs FT/6 yrs PT	Н	60^	Vo
Learn about Australian and comparative politics, public policy, foreign policy and international relations theory. Examine Australia's engagement with the Asia-Pacific region, violence in the international realm, ethical approaches to security, as well as the major conflicts occupying the international agenda.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Politician, journalist, diplomat, human rights officer, foreign affairs adviser, international trade specialist.	Prerequisites: Ur a minimum study (or equivalent) or	score of 25	5 in En	
Professional writing and editing  Bachelor of Arts (Professional) with a major in Professional Writing and Editing	4 yrs FT/8 yrs PT		80^	V
Bachelor of Arts with a major in Professional Writing and Editing	3 yrs FT/6 yrs PT		60^	
and connections for working within the literary scene. Develop a portfolio across various forms of writing and editing. Plus, examine the evolution of Australian literature and its links to cultural issues.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Journalist, publisher, writer, editor, public relations officer, novelist, screenwriter, copywriter.	a minimum study (or equivalent) or :			-
Diploma of Professional Writing and Editing (CUA50118)	1 yr FT			Vo
Gain an understanding of the laws and ethics of professional writing, and develop a portfolio of writing, including persuasive copy, media writing, scripts, fiction and nonfiction. Learn about freelancing, project management, creative collaboration and how to develop a social media engagement plan.  Career opportunities: Journalist, publisher, writer, editor, public relations officer, social media coordinator.	Prerequisites: Su of Certificate IV in Writing and Editing or industry experi	Profession g or equiva	nal	tion
	1 vs FT			\/ 0
Certificate IV in Professional Writing and Editing (CUA40118)  Learn how to work effectively in the creative arts industry and develop your writing, editing and proofreading skills. Build a portfolio of work in fiction and non-fiction including short narratives, business and public relations documents and short scripts.  Career opportunities: Journalist, writer, editor, proofreader.	1 yr FT  Prerequisites: Sa of Victorian Year 1 a high level of lang	12 and dem	nonstr	ate
Social media				
Bachelor of Arts (Professional) with a major in Social Media	4 yrs FT/8 yrs PT		80^	V
Bachelor of Arts with a major in Social Media	3 yrs FT/6 yrs PT		60^	Vo
Gain a comprehensive understanding of social media platforms within social, cultural and industry contexts.  Learn how to analyse new and emerging media technologies and drive their use and innovation across industry.  Also see Media and Communication (page 97).  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Digital advertising specialist, social media officer, journalist, publisher, editor,	Prerequisites: Ur a minimum study (or equivalent) or	score of 25	5 in En	
multimedia content producer, social media producer, digital marketer.				

## Sociology

Bachelor of Arts (Professional) with a major in Sociology	4 yrs FT/8 yrs PT	80^	V
Bachelor of Arts with a major in Sociology	3 yrs FT/6 yrs PT	60^	V or D
Understand and respond to urgent global challenges: wellbeing across the life span, global movements	Prerequisites: Units 3 a	nd 4·	

Understand and respond to urgent global challenges: wellbeing across the life span, global movements and inequalities, and technological transformations. Engage with classical and contemporary social theory and acquire traditional and emerging social research skills, including digital and audio-visual methods.

**Professional degree:** This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

**Career opportunities:** Sociologist, journalist, welfare worker, community education officer, cultural events coordinator, youth justice worker, policy researcher, policy analyst, government adviser, strategic engagement officer, guidance counselor, human resources representative, market research analyst.

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

32 ARTS AND HUMANITIES SWINBURNE UNIVERSITY OF TECHNOLOGY SWINBURNE UNIVERSITY OF TECHNOLOGY

# **AVIATION**

Is it a bird? Is it a plane? Well, yes, actually – and it could be you flying it! Our Bachelor of Aviation will have you taking to the skies from week three. Prefer to keep your feet firmly on the ground? Our aviation management courses could be just the ticket.

Soar into a future in piloting aircraft, air traffic control, management, compliance, network analysis and beyond.

### **Industry leaders**

Our industry advisory board members work for organisations including Qantas and Jetstar.

#### **JETSTAR**

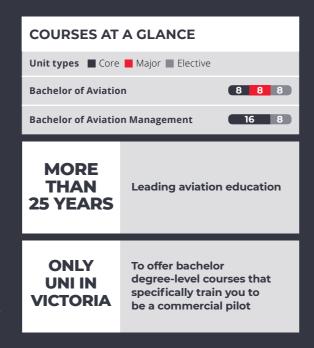
Swinburne is proud to provide cadet pilot training for Jetstar. The cadetship program trains future First and Second Officers to fly Jetstar Airbus A320 and Boeing 787 Dreamliner aircraft.

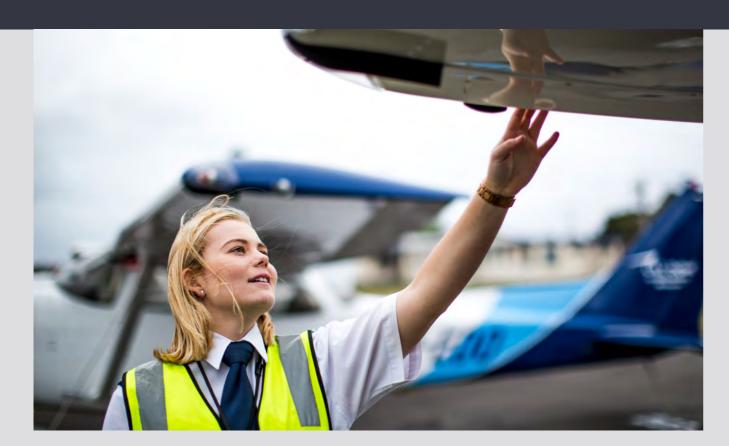
# **Jetstar**★

# QANTAS FUTURE PILOT PROGRAM

We have partnered with Qantas to offer a pilot pathway program that qualifies Swinburne's flight crew of the future to fly with QantasLink, the airline's regional brand.









Everything about the course is so interesting – from learning about the various facets of the industry to hearing first-hand experiences from the lecturers.

My teachers provided guidance not only on the subject matter, but also in navigating the aviation industry. Through my scholarship, I had the opportunity to attend the International Aviation Women's Association (IAWA) Conference in Peru. It was an incredible honour to meet so many powerful women in the industry.



4 **AVIATION** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY **AVIATION** 

# **AVIATION**

# COURSE

### **Aviation management**

#### **Bachelor of Aviation Management** 3 yrs FT/6 yrs PT H 70^ V or D

Gain a sound professional understanding of the aviation industry and develop skills in organisational, regulatory, safety, technical and business management

Career opportunities: Aviation consultant, aviation regulatory and safety services manager, airline ground operations manager, airport manager, airline operations manager.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in any Mathematics.

4 yrs FT/8 yrs PT H 70^ V or D

a minimum study score of 25 in English

(or equivalent) or 30 in English (EAL);

and Units 3 and 4: a minimum study

score of 20 in any Mathematics.

Prerequisites: Units 3 and 4:

#### **Bachelor of Aviation Management/Bachelor of Business**

Gain a sound professional understanding of how airlines, airports and the aviation industry operate in terms of regulatory, safety, technical and business management. Complement this knowledge with sought-after skills in innovation, leadership and change management. Choose from a range of business majors, including accounting, entrepreneurship and innovation, finance, human resource management, information systems, logistics and supply chain management, management and marketing.

Professional accreditation: See Bachelor of Business (page 46).

Career opportunities: Business systems manager, airline flight operations manager, airline ground operations manager, human resource manager, marketing professional, operations manager

#### Bachelor of Laws/Bachelor of Aviation Management 5 yrs FT/10 yrs PT H 85° V or D

Become equipped with the skills to work in commercial and general legal practice and in aviation management. Explore legal principles and practices, including regulatory compliance and contract law, which are of critical importance in the aviation industry. Gain insight into how airlines and airports operate. Undertake three law-related professional experience placements of 20 days each.

Professional accreditation: See Bachelor of Laws (page 98).

Career opportunities: Lawyer, aviation consultant, manager, compliance and regulation manager, project manager

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in any Mathematics.

Prerequisites: Units 3 and 4:

### **Professional piloting**

#### **Bachelor of Aviation** 3 yrs FT/6 yrs PT H EV RC V or D

Become equipped for a professional career as a pilot. Learn about the structure and operation of the aviation industry; undertake flying training at CAE Australia Flight Training; develop practical capabilities in management and analysis. This course is designed to take graduates beyond the requirements for the Civil Aviation Safety Authority Air Transport Pilot Licence theory examination, and Commercial Pilot Licence and Multi-engine Aeroplane Instrument Endorsement practical tests. Elect to complete additional flying qualifications such as a Flight Instructor Rating or Part 61 approved Multi-crew Cooperation Course.

Career opportunities: Professional pilot.

#### Bachelor of Aviation/Bachelor of Business 4 yrs FT/8 yrs PT H EV RC V or D

Gain a competitive edge with a double degree that will give you fundamental flying skills and much more. You'll learn how to successfully operate in the aviation industry while gaining valuable skills in organisational, regulatory, safety, technical and business management.

Professional accreditation: See Bachelor of Business (page 46). This double degree is structured to meet the Civil Aviation Safety Authority (CASA) requirements for Private Pilot Licence, Commercial Pilot Licence and Air Transport Pilot Licence theory examination for aeroplanes.

**Career opportunities:** Professional pilot or a business role within the air transportation industry.

as part of the letstar cadetship program. You'll obtain a Commercial Pilot Licence (CPL) and Multi-engine Aeroplane Instrument Endorsement. You will also complete a Multi-crew Cooperation and Jet Orientation Course, and the required theory for the Air Transport Pilot Licence in order to prepare you for a career as a commercial pilot. This course is offered in conjunction with Swinburne through Jetstar and must be applied for directly with them

Prerequisites: Units 3 and 4:

a minimum study score of 25 in English

(or equivalent) or 30 in English (EAL);

and Units 3 and 4: a minimum study

score of 20 in Mathematical Methods.

Applicants must complete a skills test.

a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in Mathematical Methods. Applicants must complete a skills test.

# **BUILT ENVIRONMENT** AND ARCHITECTURE

Whether you want to have an impact designing interiors, buildings, bridges or even cities, our built environment and architecture courses are created with the future in mind. You'll discover a focus on craftsmanship, sustainability and innovation, spearheaded by digital technology and hands-on experience.

Learn how to bring out the best of the natural landscape, design sustainable spaces for communities or create innovative infrastructure as an architect, designer, engineer or architectural engineer.



**DESIGN STUDIO** 

Interior Design

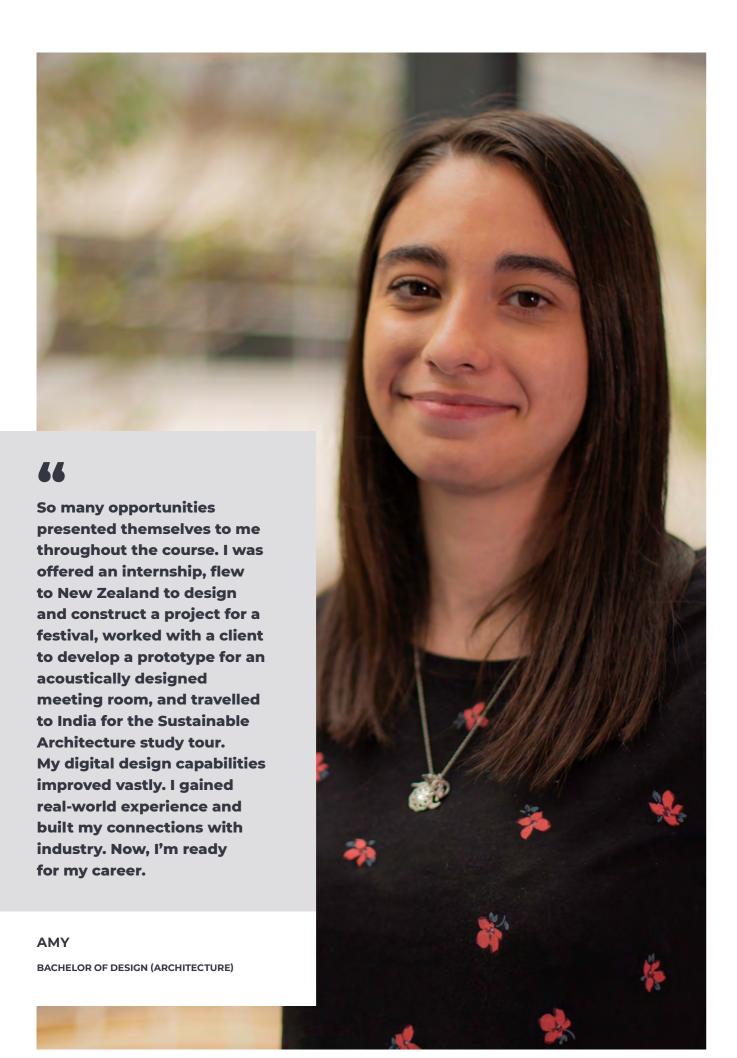
Horticulture and Landscape

**Architecture students** work alongside practising architects

**DIGITAL FIRST** 

Develop skills in digital and physical modelling and prototyping, 3D digital modelling and CAD software

**AVIATION** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY **BUILT ENVIRONMENT AND ARCHITECTURE** 



# **BUILT ENVIRONMENT AND ARCHITECTURE**

COURSE

### Architecture and building design

#### **Bachelor of Design (Architecture)** 3 yrs FT/6 yrs PT H

Gain a deep understanding of innovative building design. Tackle digital technology, environmental awareness, construction, practice, ethics, history and theory. Resolve a wide array of design challenges by formulating and actualising innovative design ideas in a series of stages from conception to finished design.

Career opportunities: Architecture roles for private and corporate architecture firms, government organisations, development companies or in the building and design sector. Further study required to practise as an architect.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

#### Advanced Diploma of Building Design (Architectural) (22477VIC)

Learn about building theory and practice to design and develop drawings for residential, industrial and commercial buildings. Develop specialist skills and knowledge in design, problem-solving, construction technology, computer-aided drafting and project administration.

This course meets the academic requirement for application to the Victorian Building Authority to become a registered building design practitioner.

Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or relevant work experience, or qualified tradesperson and practising building designer.

2 yrs FT

Career opportunities: Building designer, drafting technician.

### **Architectural engineering**

Bachelor of Engineering (Honours) (Professional) with a major in Architectural	5 yrs FT/10 yrs PT	Н	85^	V
Bachelor of Engineering (Honours) with a major in Architectural	4 yrs FT/8 yrs PT	Н	75^	V or D

Combine innovative design principles with an engineering approach to architecture. Gain the technical expertise and management skills needed to plan, design and build spaces that people want to live and work in. Apply best practices in sustainability, health and wellbeing, and SMART technology to architecture. Undertake at least 12 weeks of professional experience.

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in Mathematical Methods or Specialist Mathematics.

Prerequisites: Units 3 and 4:

Career opportunities: Design engineer, structural systems engineer, architectural engineer, project engineer

### Interior architecture and design

#### Bachelor of Design (Interior Architecture) (Honours) 4 yrs FT/8 yrs PT H 70^ V or D

Learn about the environments in which we spend our lives and how they are formed and fabricated. Learn to capitalise on new technologies and materials in the construction of indoor and outdoor 3D spaces.

Career opportunities: Interior designer, exhibition designer, property designer, retail designer, product designer, design consultant, business strategist.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in one of Art, Product Design and Technology, Media, Interactive Digital Media C, Creative and Digital Media (VCE VET) I, Studio Arts, Systems Engineering, or Visual Communication Design.

#### Advanced Diploma of Interior Design (MSF60118) 6 mths FT

Build on existing design knowledge and bring complex commercial projects to life using modern 3D visualisation techniques. Develop accelerated knowledge of construction, and the skills to thrive when faced with spatial design problems of all shapes and sizes.

Prerequisites: Successful completion of the Diploma of Interior Design.

Career opportunities: Interior designer, interior decorator, colour consultant.

#### Diploma of Interior Design (MSF50218) 1.5 yrs FT

Learn how to design interior spaces in retail, domestic and exhibition spaces. Gain the skills to plan and create furniture, fittings, surface and colour schemes for a range of architectural contexts. Career opportunities: Interior designer, interior decorator, colour consultant.

Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent. or relevant work experience.

( Duration O Location W Wantirna ☆ Entry ATAR RC Range of criteria Where to apply FT Full-time C Croydon O Online ^ Guaranteed entry For more information about ATARs, V VTAC PT Part-time please refer to page 23. D Direct H Hawthorn EV External venue # Minimum entry

**BUILT ENVIRONMENT AND ARCHITECTURE** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY **BUILT ENVIRONMENT AND ARCHITECTURE** 

# **BUILT ENVIRONMENT AND ARCHITECTURE**

COURSE	<u>(L)</u>	0	$\Diamond$	$\bowtie$

### Civil engineering

Bachelor of Engineering (Honours) (Professional) with a major in Civil	5 yrs FT/10 yrs PT	Н	85^	V
Bachelor of Engineering (Honours) with a major in Civil	4 yrs FT/8 yrs PT	Н	75^	V or D

Gain technical expertise and management skills needed to plan, design, construct and maintain infrastructure such as buildings, bridges, dams, water supply systems, waste treatment systems, road and rail networks, airports and seaports. Undertake at least 12 weeks of professional experience.

Professional accreditation: This degree is professionally accredited by Engineers Australia.

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Civil engineer, civil design engineer, structural engineer, environmental engineer.

#### Advanced Diploma of Engineering Technology (22479VIC) - Civil Engineering Design

Gain technical skills and knowledge needed to apply engineering and scientific principles when managing, designing or executing projects.

Career opportunities: Draftsperson, technical officer, construction supervisor.

(or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in Mathematical Methods or Specialist Mathematics.

a minimum study score of 25 in English

Prerequisites: Units 3 and 4:

#### 2 yrs FT/4 yrs PT H V or D

**Prerequisites:** Satisfactory completion of Victorian Year 12 or equivalent, or relevant work experience.

#### Construction

#### Advanced Diploma of Building Design (Architectural) (22477VIC)

Learn about building theory and practice to design and develop drawings for residential, industrial and commercial buildings. Develop specialist skills and knowledge in design, problem-solving, construction technology, computer-aided drafting and project administration

This course meets the academic requirement for application to the Victorian Building Authority to become a registered building design practitioner.

Career opportunities: Building designer and planner, drafting technician.

#### Diploma of Building and Construction (Building) (CPC50210)

Learn about building theory and practice related to managing and supervising the construction of residential, industrial and commercial buildings. Develop skills and knowledge in reading plans, estimating, scheduling, construction technology, site supervision, surveying, contracts and business management.

This course meets the academic requirement for application to the Victorian Building Authority to become a registered building practitioner.

Career opportunities: Construction supervisor.

#### Certificate IV in Building and Construction (Building) (CPC40110)

Learn the theory and practice needed to construct residential building projects. Gain skills and knowledge to read plans, work safely, estimate, schedule, prepare a tender and supervise construction works.

Career opportunities: Construction officer.

2 yrs FT

Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or relevant work experience, or qualified tradesperson and practising

СН

building designer.

1.5 yrs FT Н V or D Prerequisites: Satisfactory completion

of Victorian Year 12 or equivalent, or relevant work experience, or qualified tradesperson and practising

building supervisor.

Prerequisites: Relevant construction industry experience, or undertaking an apprenticeship in the building industry.

( Duration Location W Wantirna FT Full-time PT Part-time

C Croydon O Online H Hawthorn EV External venue ☆ Entry ATAR Guaranteed entry # Minimum entry

RC Range of criteria For more information about ATARs, please refer to page 23.

**⋈** Where to apply V VTAC

D Direct

(L) ₩

Prerequisites: Satisfactory completion

Prerequisites: Satisfactory completion

of Victorian Year 12 or equivalent,

relevant work experience.

### Horticulture and landscape

COURSE

#### Diploma of Horticulture (AHC50416) 2 yrs FT/4 yrs PT W Learn about plant nutrition, plant health, propagation and recognition of plants, landscape design, Prerequisites: Satisfactory completion products and services, and business management and administration. of Victorian Year 12 or equivalent, or relevant work experience

Career opportunities: Nursery manager, landscape designer, parks and gardens manager, horticultural consultant, landscaper, garden centre operator.

1.5 yrs FT/3 yrs PT W Diploma of Landscape Design (AHC50616) V or D

Combine visual and creative skills with practical and technical aspects of landscape, permaculture, business and planting design. This course is for those who seek a career as a landscape designer or those who are

of Victorian Year 12 or equivalent, involved in a horticulture or landscape business and wish to upgrade their professional skills and knowledge. or relevant work experience. Career opportunities: Landscape designer.

# **Conservation and land management**

#### Diploma of Conservation and Land Management (AHC51116) 1.5 yrs FT/2 yrs PT W

Gain a broad knowledge of environmental science and develop management strategies for the sustainable use of our resources. Learn about surveying fauna and flora, waterway testing and restoration, cultural resource management, ecological fire management, erosion and sediment control, project management and community engagement.

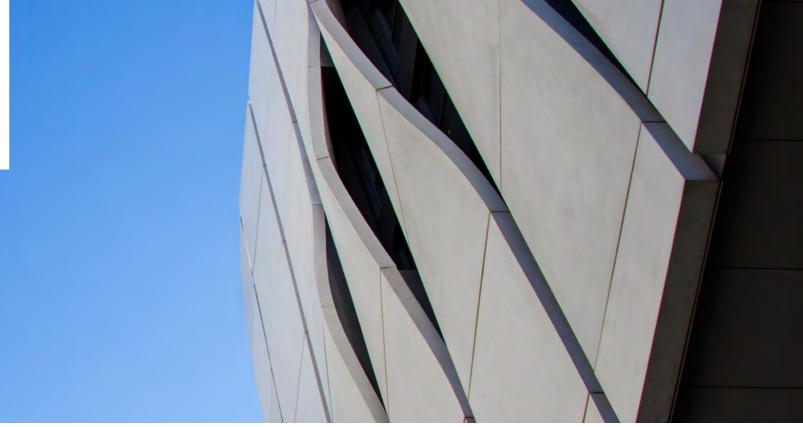
Career opportunities: Conservationist, park ranger.

Certificate III in Conservation and Land Management (AHC31416) 1.5 yrs PT

Get skills and knowledge relevant to the conservation and land management industry. Participate in industry-focused field-based training to gain skills for outdoor work at trade level.

Career opportunities: Conservationist, park ranger.

Prerequisites: Applicants must be 15 years or over and have appropriate numeracy and literacy skills.



Live and breathe architecture when you study at Swinburne.

**BUILT ENVIRONMENT AND ARCHITECTURE** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE LINIVERSITY OF TECHNOLOGY BUILT ENVIRONMENT AND ARCHITECTURE

Got dreams to be bigger than Sheryl Sandberg? From managing multi-million-dollar companies to building your own, get your career started with one of our business courses.

With courses covering all aspects of the business, financial and management industries, you'll learn skills and practices that will help you excel in any enterprise, anywhere in the world.

Our graduates have gone on to work for companies like Deloitte, PwC, Telstra, NAB, ANZ and IBM.

### **Professional recognition**

Our business courses are recognised by leading industry organisations. Graduates may be eligible for membership of a number of organisations relevant to their major area of study.

















For Learning Engagement and Student Support

2021 GUG, QILT Student Experience Survey 2018 and 2019



For Skills Development and **Graduate Salary** 

2021 GUG, and QILT Student Experience Survey 2018 and 2019, QILT Graduate Outcomes Survey 2017-2019

**OUR BUSINESS GRADS EARN** \$9.3K

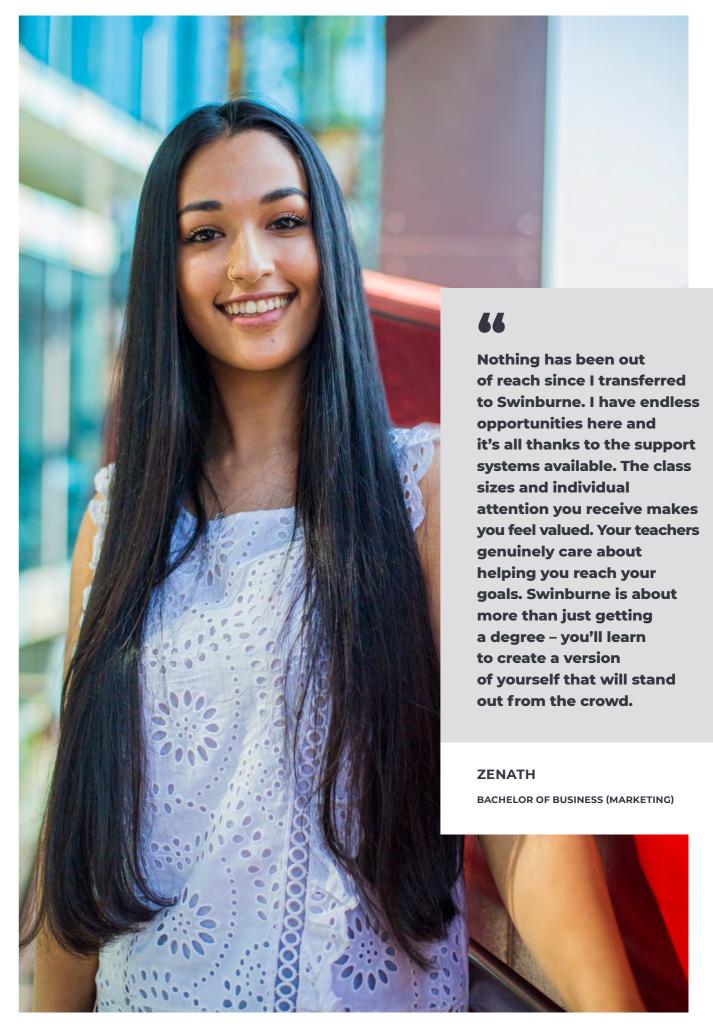
**MORE** 

As compared to the national average The median salary is \$65.6K

- the highest in Melbourne

QILT Graduates Outcomes Survey 2018-2020

# **COURSES AT A GLANCE** Unit types ■ Core ■ Major ■ Elective Prof Placement Adv Minor 8 8 4 4 Bachelor of Accounting **Bachelor of Accounting and Business** 24 8 Information Technology (Professional) **Bachelor of Aviation Management** 16 8 8 8 8 **Bachelor of Business** Accounting Accounting and Finance Accounting and Financial Planning Business Administration Entrepreneurship and Innovation Financial Planning · Human Resource Management Information Systems Logistics and Supply Chain Management Management Marketing Sports Management **Bachelor of Business** 8 8 8 Information Systems Business Analysis · Data Analytics 16 8 8 **Bachelor of Business** Information Technology (Professional) **Bachelor of Information and** 8 8 8 **Communication Technology** Business Systems Systems Analysis Certificates and diplomas in Accounting **Business Foundational Event Management** Human Resource Management Library and Information Services Marketing and Communication Social Media Marketing Sports Management



BUSINESS 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY BUSINESS

COURSE		0	$\Diamond$	W
Accounting				
Bachelor of Accounting	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Accounting	3 yrs FT/6 yrs PT	0	60^	D
Develop skills that are fundamental to evaluating, analysing and communicating the financial position of an organisation or individual. Learn about the areas of economics, company law, financial accounting, management accounting, finance, tax and auditing.  Professional accreditation: This degree is professionally accredited by CPA Australia and Chartered Accountants Australia and New Zealand.  Career opportunities: Public accountant, business consultant, auditor, taxation agent, analyst,	Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).			
orensic accountant.				
Bachelor of Accounting and Business Information Technology (Professional)	3 yrs FT	Н	75#	V or D
This prestigious degree is developed and delivered in partnership with industry to produce the business eaders of tomorrow. As a student, you will receive an industry-funded scholarship worth approximately \$40,000* and undertake two 20-week work placements with industry partners such as KPMG, Pitcher Partners, Ernst & Young, Simplot and Unico. Learn how to use accounting systems to record and analyse business activities, employ financial statements to guide investment decisions and use information from accounting systems to make decisions, develop operating strategies and evaluate business performance.  Discover how people, information, computers, networks and processes come together to create cohesive	Prerequisites: Ur a minimum study (or equivalent) or : Short-listed applic an interview.	score of 30 in En	25 in En Iglish (EA	AL).
pusiness solutions.				
Professional accreditation: This degree is professionally accredited by CPA Australia and Chartered Accountants Australia and New Zealand. This course also has provisional accreditation with the Australian Computer Society (ACS).				
Career opportunities: Public accountant, business consultant, auditor, taxation agent, systems architect, data analyst, business IT manager, business and systems analyst, business analyst, forensic accountant. Conditions apply.				
Bachelor of Business (Professional) with a major in Accounting	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Business with a major in Accounting	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Business with a major in Accounting	3 yrs FT/6 yrs PT	0	60^	D
Develop skills that are fundamental to evaluating, analysing and communicating the financial position of an organisation or individual. Become prepared in the areas of financial information systems, management accounting, company accounting, financial management, tax and auditing.	Prerequisites: Un a minimum study (or equivalent) or 3	score of	25 in En	
Professional accreditation: This degree is professionally accredited by CPA Australia, and Chartered Accountants Australia and New Zealand. Graduates may apply for membership with ACCA and IPA.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.				
Career opportunities: Business manager, accountant, project manager, administrator, risk analyst.				
Advanced Diploma of Accounting (FNS60217)	6 mths FT/1 yr PT	0		D
Gain a thorough understanding of accounting functions related to tax issues and plans, corporate governance matters, reporting on financial systems, analysing management accounting information and applying accounting principles in legal-related matters.  Career opportunities: Analyst, accounts clerk, administrator, bookkeeper, payroll officer.	<b>Prerequisites:</b> Sa of Diploma of Acco			
Diploma of Accounting (FNS50217)	6 mths FT/1 yr PT	ΗО		V or D
earn about intermediary accounting principles and applications, including how to compose corporate	<b>Prerequisites:</b> Sa	tisfactor	ry compl	etion
reports, manage and forecast budgets, and prepare tax documentation. Gain practical accounting skills for work in financial services and other industries requiring accounting support.	of Certificate IV in Bookkeeping or ed work experience.	Account	ting and	
Career opportunities: Analyst, accounts clerk, administrator, bookkeeper, payroll officer.	work experience.			
Certificate IV in Accounting and Bookkeeping (FNS40217)	6 mths FT/1 yr PT	CHO	W	V or D
Receive practical training for a job in the accounting sector. Learn to prepare financial reports, set up and operate a computerised accounting system, establish and maintain payroll systems, and complete ousiness activity and instalment activity statements. This course meets the educational requirements	<b>Prerequisites:</b> Satisfactory completion of Victorian Year 12 or equivalent, or relevant work experience.			

© Duration
FT Full-time
PT Part-time
PT Hawthorn

© Location
W Wantirna
C Croydon
O Online
H Hawthorn
EV External venue

C Croydon
D Online
FM Minimum entry

C Croydon
FM Minimum entry

C Croydon
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C C Croydon
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# Accounting and finance

Chartered Accountants Australia and New Zealand.

COURSE

Bachelor of Business (Professional) with a major in Accounting and Finance	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Business with a major in Accounting and Finance	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Business with a major in Accounting and Finance	3 yrs FT/6 yrs PT	0	60^	D

Develop core skills in analysing investments, sourcing foreign exchange deals, analysing and communicating the financial position of an organisation, risk management and business investment. **Professional accreditation:** This degree is professionally accredited by CPA Australia and

**Professional degree**: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

**Career opportunities:** Business manager, accountant, investment banker, administrator, risk analyst, financial adviser, investment manager, financial forecaster.

#### Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

(1)

### Accounting and financial planning

Bachelor of Business (Professional) with a major in Accounting and Financial Planning	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Business with a major in Accounting and Financial Planning	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Business with a major in Accounting and Financial Planning	3 yrs FT/6 yrs PT	0	60^	D

Gain an understanding of finance in large- and small-scale arenas. Develop knowledge and skills in company and personal accounting, as well as financial information systems, taxation, auditing and finance law.

Professional accreditation: The Accounting and Financial Planning major meets the educational requirements of the Financial Planning Association of Australia. It is also accredited by Chartered Accountants

requirements of the Financial Planning Association of Australia. It is also accredited by Chartered Accountants Australia and New Zealand, CPA Australia and, subject to final approval of the educational requirements, the Tax Practitioners Board. The Bachelor of Business with a major in Accounting and Financial Planning and Bachelor of Business (Professional) with a major in Accounting and Financial Planning are accredited by the Financial Planning Education Council. This degree is approved by the Financial Standards and Ethics Authority (FASEA). It is professionally accredited by the Financial Planning Education Council (FPEC), Chartered Accountants Australia and New Zealand, CPA Australia and, subject to final approval of the educational requirements, the Tax Practitioners Board.

Career opportunities: Accountant, financial planner, business analyst, investment banker, risk analyst.

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

# **Aviation management**

Gain a sound professional understanding of the aviation industry and develop skills in organisational, regulatory, safety, technical and business management.

**Career opportunities:** Business systems manager, airline ground operations manager, airport manager, airline operations manager.

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in any Mathematics.

4 yrs FT/8 yrs PT H 70^ V or D

### Bachelor of Aviation Management/Bachelor of Business

Gain a sound professional understanding of how airlines, airports and the aviation industry operate in terms of regulatory, safety, technical and business management. Complement this knowledge with sought-after skills in innovation, leadership and change management. Choose from a range of business majors, including accounting, entrepreneurship and innovation, finance, human resource management, information systems, logistics and supply chain management, management and marketing, financial planning and sports management.

**Professional accreditation:** See Bachelor of Business (page 46).

**Career opportunities:** Business systems manager, airline ground operations manager, airport manager, airline operations manager, human resource manager, marketing professional, operations manager.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in any Mathematics.

#### Bachelor of Aviation/Bachelor of Business

Gain a competitive edge with a double degree that will give you fundamental flying skills and much more. You'll learn how to successfully operate in the aviation industry while gaining valuable skills in organisational, regulatory, safety, technical and business management. For more: See Bachelor of Aviation (page 36).

**Professional accreditation:** See Bachelor of Business (page 46). The Bachelor of Aviation / Bachelor of Business is structured to meet the Civil Aviation Safety Authority (CASA) requirements for Private Pilot Licence, Commercial Pilot Licence and Air Transport Pilot Licence theory examination for aeroplanes.

**Career opportunities:** Professional pilot or a business role within the air transportation industry.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in Mathematical Methods or Specialist Mathematics. Applicants must complete a skills test.

4 yrs FT/8 yrs PT H EV RC V or D

44 BUSINESS 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY BUSINESS

COURSE	(L)	0	$\triangle$	Ø
Business				
Bachelor of Business (Professional)	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Business	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Business	3 yrs FT/6 yrs PT	0	60^	D
Gain core skills in business practices and decision-making before beginning major studies in your area of specialisation. Cap it off with final-year consulting projects that will help you launch your future career. Select at east one business major from a range that includes accounting, business administration, entrepreneurship and innovation, finance, financial planning, human resource management, information systems, logistics and supply chain management, management, marketing or sports management.  Professional accreditation: The accounting and finance major is professionally accredited by CPA Australia and Chartered Accountants Australia and New Zealand. The human resource management major is professionally accredited by the Australian Human Resources Institute. The Financial Planning major is approved by the Financial Advisers Standards and Ethics Authority (FASEA) and accredited by the Financial Planning Education Council (FPEC).  Professional degree: This degree extends the standard degree to include a professional placement to-major comprising a 12-month work placement.	Prerequisites: Un a minimum study (or equivalent) or	score of	25 in En	_
Bachelor of Arts/Bachelor of Business	4 yrs FT/8 yrs PT	Н	60^	V or D
Combine professional business skills with an understanding of how societies function and how social value can change. Develop sought after skills in critical analysis, creativity and problem solving, and prepare for a career with global opportunities.  Professional accreditation: See Bachelor of Business and Bachelor of Arts (page 28).  Career opportunities: Policy analyst, media officer, researcher, business manager, business journalist, sales manager, communication specialist, marketing specialist, human resource manager.	Prerequisites: Us a minimum study (or equivalent) or	nits 3 an score of	d 4: f 25 in En	glish
Bachelor of Design/Bachelor of Business	4 yrs FT/8 yrs PT	Н	70^	V or D
Gain the skills necessary for a career in the growing creative industries sector. Develop your visual understanding, technical capability and business skills to improve commercial outcomes for yourself and others. Develop skills and knowledge in management and operations to prepare you for work in modern organisations. Design majors include branded environments, communication design, motion design, obtotomedia, and UX interaction design.  Professional accreditation: See Bachelor of Business (page 46).  Career opportunities: Brand manager, business consultant, marketing and sales manager, UX interaction designer.	Prerequisites: Un a minimum study (or equivalent) or and Units 3 and 4 of 20 in one of Art Technology, Medi Media C, Creative VET) I, Studio Arts Communication D	score of 30 in En : a minin t, Produc a, Intera and Dig s or Visua	25 in English (EAl num stud t Design ctive Dig ital Medi	L); dy score i and ital
Bachelor of Engineering (Honours)/Bachelor of Business	5 yrs FT/10 yrs PT	Н	75^	V or D
Combine expertise in an engineering field of your choice with the creative thinking and behaviours needed to become an innovative business professional. Complete core units in your first year to assist in selecting from a wide range of majors. Undertake at least 12 weeks of professional experience in engineering.  Professional accreditation: See Bachelor of Business and Bachelor of Engineering (Honours) (page 68).  Career opportunities: Networking engineer, electronics designer, manufacturing specialist, civil infrastructure engineer, construction engineer, project manager, engineering consultant.	Prerequisites: Ur a minimum study (or equivalent) or and Units 3 and 4 score of 20 in Mat or Specialist Math	score of 30 in En : a minin :hematic	f 25 in En glish (EA) num stud al Metho	L); dy
Bachelor of Health Science/Bachelor of Business	4 yrs FT/8 yrs PT	Н	60^	V or D
Explore Australian and international health challenges. Examine the physical, psychological and social aspects of health in a variety of settings. Gain core skills and knowledge in business, management and operations to prepare for work in modern organisations.  Professional accreditation: See Bachelor of Business and Bachelor of Health Science (page 84).  Career opportunities: Health writer, community development manager, market researcher, business manager, human resource manager, biomedical scientist, policy analyst, project manager.	Prerequisites: Ur a minimum study (or equivalent) or It is recommende completed some Mathematics.	score of 30 in En d that ap	f 25 in En glish (EA oplicants	L).
Bachelor of Laws/Bachelor of Business	5 yrs FT/10 yrs PT	Н	85^	V or D
Gain a recognised legal qualification and prepare for a career across a range of sectors. Learn to be an entrepreneurial thinker and gain skills in business management and operations. Examine how technology is changing both law and business. Learn about commercial law with an emphasis on intellectual property, rademarks, patents and designs, copyright, the prohibition of misleading or deceptive conduct, and competition law.  Professional accreditation: See Bachelor of Business and Bachelor of Laws (page 98).	Prerequisites: Ui a minimum study (or equivalent) or	score of	25 in En	

Duration       ♥ Location       W Wantirna       ☆ Entry ATAR       RC Range of criteria         FT Full-time       C Croydon       O Online       ^ Guaranteed entry       For more information         PT Part-time       H Hawthorn       EV External venue       # Minimum entry       please refer to page of criteria	n about ATARs,	<b>⋈ W</b> V V¹ D Di		apply
COURSE	<u>(L)</u>	<b></b>	$\Diamond$	$\boxtimes$
Business (continued)				
Bachelor of Media and Communication/Bachelor of Business	4 yrs FT/8 yrs PT	Н	60^	V or D
This double degree will prepare you for a dynamic career where professional communication, media content creation and business intersect. You'll select a business major (see page 46) and a media and communication major (see page 99), and develop research, problem-solving and critical thinking skills. You'll also enjoy free access to (and coaching in) the Adobe Creative Cloud.  Professional accreditation: See Bachelor of Business and Bachelor of Media and Communication (page 104).  Career opportunities: Marketing and sales professional, public relations specialist, communications adviser, advertising consultant, marketing specialist, business journalist, business writer, business manager.	Prerequisites: Ur a minimum study (or equivalent) or	score of 2	25 in Eng	-
Business foundational				
Diploma of Business (UniLink)	8 mths FT 16 mths PT	Н		V or D
This higher education diploma provides an alternative pathway to the second year of a bachelor degree. The units are similar to those offered in the first year of a bachelor degree, but classes are smaller and students have more one-on-one time with teachers. Complete units in accounting, economics, marketing and communication.	Prerequisites: Ur a minimum study (or equivalent) or	score of 2	20 in En	
Diploma of Business (BSB50215)	6 mths FT/1 yr PT	ΗО		V or D
Gain a broad understanding of fundamental business operations, including meetings, budgets, financial plans, digital business solutions, staff recruitment and induction processes, and project management. In the oncampus course, you'll also focus on e-commerce, gaining knowledge of the benefits, the trends, the platforms and strategies that will help you succeed.	<b>Prerequisites:</b> Su of Certificate IV in or relevant work e	Business	or ėqui	
Career opportunities: Executive officer, office manager, retail manager, team leader, business administrator.				
Certificate IV in Business (BSB40215)	6 mths FT/1 yr PT	НО		V or D
Learn practical business skills with an emphasis on customer experience, marketing and financial strategy.  Develop your confidence in problem solving, communication, teamwork, presentation skills, digital skills and data literacy.	Prerequisites: Sa of Victorian Year 12 relevant work expe	2 or equiv		
Career opportunities: Human resources officer, marketing and sales officer, public relations officer.				
Marketing and Communication Foundations Skill Set (BSBSS00077)	6 wks FT	Н		D
Gain a sound basis of marketing and communication, presentation and debate. Learn how to effectively articulate ideas, apply digital solutions to work processes and develop skills to work in the marketing and communication industry.	<b>Prerequisites:</b> Applicants may enter at a range of skill levels, but must be able to speak English.			
Business administration				
Bachelor of Business (Professional) with a major in Business Administration	4 yrs FT/8 yrs PT	Н	80^	٧
Bachelor of Business with a major in Business Administration	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Business with a major in Business Administration	3 yrs FT/6 yrs PT	0	60^	D
Gain an understanding of organisational management, strategies and principles. Develop practical, theoretical and conceptual skills, and an understanding about how businesses operate.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Business administrator, business manager, human resource officer, marketing coordinator, project officer.	Prerequisites: Ur a minimum study (or equivalent) or	score of 2	25 in Eng	
Business analysis				
Bachelor of Business Information Systems with a major in Business Analysis	3 yrs FT/6 yrs PT	Н	60^	V or D
Develop the skills to analyse the requirements of users and learn how to transform business through technology. Discover approaches to analysing economic, social and environmental challenges and developing creative solutions that enable success.  Professional accreditation: This degree is professionally accredited by the Australian Computer Society (ACS).  Career opportunities: Systems analyst, systems architect, business analyst, requirements analyst, UX analyst, technical business analyst, process consultant.	Prerequisites: Ur a minimum study (or equivalent) or	score of 2	25 in Eng	_
	3 vrs ET/6 vrs DT	Н	60^	V or D
Bachelor of Information and Communication Technology with a major in Systems Analysis  Bachelor of Information and Communication Technology with a major in Systems Analysis	3 yrs FT/6 yrs PT	О	60^	V Or D
Learn how to redesign business processes and describe the software and web applications that assist in creating more efficient working environments.  Professional accreditation: This degree is professionally accredited by the Australian Computer Society (ACS).  Career opportunities: Systems analyst, systems architect, business analyst, requirements analyst, technical business analyst, corporate applications analyst.	3 yrs FT/6 yrs PT  Prerequisites: Ur a minimum study (or equivalent) or	nits 3 and score of 2	4: 25 in En	glish

46 BUSINESS BUSINESS 47 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY

multimedia developer.

\*Conditions apply

COURSE	(L)	0	$\Diamond$	$\boxtimes$
Business information systems				
Bachelor of Accounting and Business Information Technology (Professional)	3 yrs FT	Н	75#	V or D
This prestigious degree is developed and delivered in partnership with industry to produce the business leaders of tomorrow. As a student, you will receive an industry-funded scholarship worth approximately \$40,000* and undertake two 20-week work placements with industry partners.  Learn how to use accounting systems to record and analyse business activities, employ financial statements to guide investment decisions and use information from cost accounting systems to make decisions, develop operating strategies and evaluate business performance. Discover how people, information, computers, networks and processes come together to create cohesive business solutions.  Professional accreditation: This course is professionally accredited by CPA Australia, Chartered Accountants Australia and New Zealand, and the Australian Computer Society.  Career opportunities: Public accountant, business consultant, auditor, taxation agent, systems architect,	Prerequisites: Units 3 and 4: a minimum study scoreof 25 in English (or equivalent) or 30 in English (EAL). Short-listed applicants must attend an interview.			
data analyst, business IT manager, business and systems analyst, business analyst, forensic accountant.				
Bachelor of Business (Professional) with a major in Information Systems	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Business with a major in Information Systems	3 yrs FT/6 yrs PT	Н	60^	V or D
Learn about business analysis and problem-solving, systems analysis, project management, the provision of IS services, social networking in organisations, and mobile business and connectivity.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Business IT manager, business analyst, information architect, manager, IT consultant, systems analyst and tester.	Prerequisites: U a minimum study (or equivalent) or	score of 2	25 in Eng	
Bachelor of Business Information Systems	3 yrs FT/6 yrs PT	Н	60^	V or D
Become prepared for immediate entry into the management of business information systems in organisations. Learn about business analysis and problem-solving, systems analysis, project management, the provision of information systems services, social networking in organisations, and mobile business and connectivity. Choose a major in business analysis, or data analytics.  Professional accreditation: This degree is professionally accredited by the Australian Computer Society.  Career opportunities: Systems analyst, systems architect, business IT manager, business analyst, project manager.	Prerequisites: U a minimum study (or equivalent) or	score of 2	25 in Eng	
Bachelor of Business Information Systems/Bachelor of Business	4 yrs FT/8 yrs PT	Н	60^	V or D
Combine specialist studies in business information systems (IS) with a business degree. Gain the skills and knowledge to pursue a generalist or specialist career using information systems and information and communication technology to analyse business problems and develop creative and innovative solutions.  Professional accreditation: See Bachelor of Business and Bachelor of Business Information Systems.  Career opportunities: Business IT manager, business analyst, financial adviser, economist, market researcher, information architect, manager, IT consultant, systems analyst and tester.	Prerequisites: U a minimum study (or equivalent) or	score of 2	25 in Eng	
Bachelor of Business Information Technology (Professional)	3 yrs FT	Н	75#	V or D
This prestigious degree is developed and delivered in partnership with industry to produce the business leaders of tomorrow. As a student, you will receive an industry-funded scholarship worth approximately \$40,000* and spend 40 weeks gaining valuable ICT workplace industry experience. Develop technical skills in databases and programming, and explore business analysis and problem-solving, business process management, project management, the management of information systems (IS) in organisations, the provision of IS services, social networking in organisations, and mobile business and connectivity.  Professional accreditation: This degree is professionally accredited by the Australian Computer Society.  Career opportunities: Project manager, business analyst, information architect, business requirements analyst.	Prerequisites: U a minimum study (or equivalent) or and Units 3 and 4 score of 20 in any Short-listed appli an interview.	score of 2 30 in Engl : a minimu Mathema	25 in Eng lish (EAL um stud atics.	.); y
Bachelor of Information and Communication Technology with a major in Business Systems	3 yrs FT/6 yrs PT	Н	60^	V or D
Build the knowledge and skills to be an information and communication technology professional.  The course focuses on computer and network configurations, web and application programming, and database design and maintenance. Choose to specialise in a particular aspect of ICT-related work. This course is ideal for students who are seeking an ICT course with flexible outcomes.  Professional accreditation: This degree is professionally accredited by the Australian Computer Society.	Prerequisites: U a minimum study (or equivalent) or	score of 2	25 in Eng	-
Career opportunities: Application integration specialist, data mining specialist, technical writer,				

**⋈** Where to apply ( Duration Location W Wantirna ☆ Entry ATAR RC Range of criteria ^ Guaranteed entry For more information about ATARs, FT Full-time C Croydon O Online V VTAC please refer to page 23. PT Part-time H Hawthorn EV External venue # Minimum entry D Direct

# **Business information systems (continued)**

in the increasingly technology-driven environment of organisations.

Bachelor of Laws/Bachelor of Business Information Systems Learn about commercial law with an emphasis on intellectual property law. Explore trademarks, patents and designs, copyright, the prohibition of misleading or deceptive conduct, and competition law. Gain technical and analytical skills to meet the growing demand for information systems professionals

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

85^ V or D

60^ V or D

5 yrs FT/10 yrs PT H

(L)

Professional accreditation: See Bachelor of Business Information Systems and Bachelor of Laws (page 99). Career opportunities: Lawyer, corporate counsellor, manager, compliance and regulation manager, project manager

### **Data analytics**

COURSE

Bachelor of Business Information Systems with a major in Data Analytics
Learn how business intelligence and business analytics are used to solve 'wicked problems' and provide business insight, as well as add strategic value, such as understanding consumer behaviour, creating organisational benchmarking, improving efficiency, and informing decision-making. Discover how business agility can be improved through an understanding of big data.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

3 yrs FT/6 yrs PT H

Professional accreditation: See Bachelor of Business Information Systems (page 48). Career opportunities: Business analyst, data analyst, business intelligence analyst, information management specialist, business solutions consultant.

60^ V or D Bachelor of Business Information Systems/Bachelor of Business with a major in Data Analytics 4 yrs FT/8 yrs PT H

Learn how business intelligence and business analytics are used to solve problems and provide important insight into business strategies. Understand business operations and master concepts in information systems. **Professional accreditation:** See Bachelor of Business Information Systems and Bachelor of Business. Career opportunities: Business process analyst, business development manager, IT director.

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

### **Entrepreneurship and innovation**

Bachelor of Business (Professional) with a major in Entrepreneurship and Innovation	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Business with a major in Entrepreneurship and Innovation	3 yrs FT/6 yrs PT	Н	60^	V or D

Differentiate a business idea from a tangible business opportunity and use innovation theory and techniques to maximise that opportunity. Develop strategic thinking and planning skills, explore business models, interpret sales and marketing opportunities, build an effective team and source capital funding.

a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

Prerequisites: Units 3 and 4:

co-major comprising a 12-month work placement. Career opportunities: Business owner, entrepreneur, venture capital analyst, change manager, product developer, market researcher, product manager.

Professional degree: This degree extends the standard degree to include a professional placement

#### **Event management**

Diploma of Event Management (SIT50316)	1 yr FT	Н	Vor
Gain the skills to plan and deliver events. Develop an understanding of event management processes and	Prerequisite	es: Satisfactory	completion

Gain the skills to plan and deliver events. Develop an understanding of event management processes and learn how to work independently to make operational event management decisions.

of Victorian Year 12 or equivalent. or relevant work experience. Career opportunities: Events planner, exhibitions coordinator, venue coordinator.

#### **Finance**

Bachelor of Business (Professional) with a major in Finance	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Business with a major in Finance	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Business with a major in Finance	3 yrs FT/6 yrs PT	0	60^	D

Learn how to analyse and assess financial forecasts and the value of companies, to manage risk, to investigate investment opportunities, and to examine the values of shares and bonds.

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Investment manager, financial forecaster, business manager, project officer, administrator, risk analyst.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

BUSINESS 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY BUSINESS 49

warehouse operations manager.

COURSE	<u>(L)</u>	0	$\Diamond$	$\boxtimes$
Financial planning				
Bachelor of Business (Professional) with a major in Financial Planning	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Business with a major in Financial Planning	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Business with a major in Financial Planning	3 yrs FT/6 yrs PT	0	60^	D
Develop core skills in financial planning and gain an in-depth knowledge across financial management areas such as investment, taxation, financial risk, and retirement and estate planning. Gain an understanding of legislation and ethics so you can assist others to reach their financial goals.  This major meets the requirements of the Financial Planning Association of Australia (FPA).  Professional accreditation: These degrees with a major in Financial Planning are approved by the Financial	a minimum study	<b>Prerequisites:</b> Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).		
Advisers Standards and Ethics Authority (FASEA) and meet the educational requirements of the Financial Planning Association of Australia (FPEC).				
<b>Professional degree:</b> This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.				
<b>Career opportunities:</b> Financial planner, business analyst, investment banker, risk analyst, financial adviser.				
Human resource management				
Bachelor of Business (Professional) with a major in Human Resource Management	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Business with a major in Human Resource Management	3 yrs FT/6 yrs PT	Н	60^	V or D
Learn about the impact of human resource management as the driver of innovation and high performance in the workplace. Gain the skills and knowledge to manage and coordinate people to achieve strategic business objectives.	Prerequisites: Un a minimum study (or equivalent) or	score of	25 in En	_
Professional accreditation: This major is professionally accredited by the Australian Human Resources Institute	e.			
<b>Professional degree</b> : This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement. <b>Career opportunities:</b> HR adviser, HR consultant, HR manager, organisational change coordinator.				
Diploma of Human Resources Management (BSB50618)	6 mths FT/1 yr PT	ΗО		V or D
Develop the knowledge, skills and professional practice needed to perform in a human resources management role. Learn about workforce planning strategies, HR systems and compliance issues, performance management systems, and organisational culture and change.	<b>Prerequisites:</b> Su of Certificate IV in or equivalent, or re	Busines	ss (see pa	ge 47)
Career opportunities: HR officer, payroll officer, HR coordinator.				
Library and information services				
Diploma of Library and Information Services (BSB52115)	1 yr FT/2 yrs PT	ΗО		V or D
Diploma of Library and Information Services (BSB52115)  Develop the necessary research, cataloguing and collection management skills needed to work in libraries, or in agencies, institutions and organisations that handle large volumes of information.	Prerequisites: Ye or equivalent, and	ar 12 co I relevan		
Develop the necessary research, cataloguing and collection management skills needed to work in libraries, or in agencies, institutions and organisations that handle large volumes of information.  Professional accreditation: This diploma is fully accredited by the Australian Library and Information Association.	Prerequisites: Ye	ar 12 co I relevan		
Develop the necessary research, cataloguing and collection management skills needed to work in libraries, or in agencies, institutions and organisations that handle large volumes of information.  Professional accreditation: This diploma is fully accredited by the Australian Library and	Prerequisites: Ye or equivalent, and	ar 12 co I relevan		
Develop the necessary research, cataloguing and collection management skills needed to work in libraries, or in agencies, institutions and organisations that handle large volumes of information.  Professional accreditation: This diploma is fully accredited by the Australian Library and Information Association.	Prerequisites: Ye or equivalent, and	ar 12 co I relevan		
Develop the necessary research, cataloguing and collection management skills needed to work in libraries, or in agencies, institutions and organisations that handle large volumes of information.  Professional accreditation: This diploma is fully accredited by the Australian Library and Information Association.  Career opportunities: Library technician, access services officer, information services officer.	Prerequisites: Ye or equivalent, and	ar 12 co I relevan		
Develop the necessary research, cataloguing and collection management skills needed to work in libraries, or in agencies, institutions and organisations that handle large volumes of information.  Professional accreditation: This diploma is fully accredited by the Australian Library and Information Association.  Career opportunities: Library technician, access services officer, information services officer.  Logistics and supply chain management	Prerequisites: Ye or equivalent, and and/or work histo	ar 12 co I relevan ry.	nt study	
Develop the necessary research, cataloguing and collection management skills needed to work in libraries, or in agencies, institutions and organisations that handle large volumes of information.  Professional accreditation: This diploma is fully accredited by the Australian Library and Information Association.  Career opportunities: Library technician, access services officer, information services officer.  Logistics and supply chain management  Bachelor of Business (Professional) with a major in Logistics and Supply Chain Management	Prerequisites: Ye or equivalent, and and/or work histo	ar 12 co I relevan ry.	st study	V
Develop the necessary research, cataloguing and collection management skills needed to work in libraries, or in agencies, institutions and organisations that handle large volumes of information.  Professional accreditation: This diploma is fully accredited by the Australian Library and Information Association.  Career opportunities: Library technician, access services officer, information services officer.  Logistics and supply chain management  Bachelor of Business (Professional) with a major in Logistics and Supply Chain Management  Bachelor of Business with a major in Logistics and Supply Chain Management	Prerequisites: Ye or equivalent, and and/or work histo  4 yrs FT/8 yrs PT  3 yrs FT/6 yrs PT	ar 12 co I relevan ry.  H H O nits 3 ans	80^ 60^ 60^ d 4:	V V or D D

© <b>Duration</b>   © <b>Location</b> W Wantirna   ☆ <b>Entry ATAR</b> RC Range of criteria   ↑ Guaranteed entry   For more information   ↑ Part-time   H Hawthorn   EV External venue   # Minimum entry   Please refer to page	n about ATARs,	VV	<b>/here to</b> TAC irect	apply
COURSE	(L)	0	$\Diamond$	$\boxtimes$
Management				
Bachelor of Business (Professional) with a major in Management	4 yrs FT/8 yrs PT	Н	80^	\
Bachelor of Business with a major in Management	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Business with a major in Management	3 yrs FT/6 yrs PT	0	60^	
Learn about the role of management in business and discover how key resources must be planned, monitored and controlled to meet strategic business objectives. Develop the skills to manage yourself, to organise and lead others, to make creative and well-informed decisions, and to evaluate current situations.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Project manager, business manager, change manager, administrator, customer service manager, planning manager.	Prerequisites: Un a minimum study (or equivalent) or	score of	25 in En	
Marketing  Pachalar of Business (Brafassianal) with a major in Marketing	Avre FT/9 vre DT	Ц	901	\
Bachelor of Business (Professional) with a major in Marketing	4 yrs FT/8 yrs PT	Н	80^	Vor
Bachelor of Business with a major in Marketing  Bachelor of Business with a major in Marketing	3 yrs FT/6 yrs PT 3 yrs FT/6 yrs PT	Н	60^ 60^	V or D
Develop the advanced marketing and managerial skills needed to succeed in the industry. Learn about buyer behaviour, innovation and design, planning, branding, channel design, integrated marketing communication and market research.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Marketing specialist, market research manager, advertising consultant, brand manager, product manager.	a minimum study (or equivalent) or			-
Diploma of Marketing and Communication (BSB52415)	1 yr FT	Н		V or D
Develop sound theory, knowledge and practical experience in marketing in order to progress career prospects in marketing and communication management.  Career opportunities: Marketing consultant, marketing officer, social media officer, public relations coordinator, media coordinator, project coordinator, market researcher.  Project Management	Prerequisites: Su of the Marketing a Foundations Skill	and Comr	nunicati	ion
Diploma of Project Management (BSB51415)	6 -8 mths PT	0		D
This course is designed for emerging and current project managers, those aspiring to be a project manager, and recently promoted project managers.  Career opportunities: Project manager, project coordinator.  Social media marketing	Prerequisites: At relevant work exp		-	
Diploma of Social Media Marketing (10118NAT)	1 yr FT	Н		V or D
Gain skills in digital technologies, planning and strategy, and written communication, such as for blogs, eDMs and content marketing. Develop a portfolio of work, and examine current trends and market innovations.  Career opportunities: Social media coordinator, communications assistant, content marketing manager.  Sports management	Prerequisites: Sa of Victorian Year 1 or relevant work 6	12 or equ	ivalent,	etion
Bachelor of Business with a major in Sports Management	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Business with a major in Sports Management	3 yrs FT/6 yrs PT	0	60^	V 01 D
Develop management skills for work in the dynamic sport and leisure industry. Learn how to manage community relationships and contribute to the sustainability of an organisation.  Career opportunities: Sports administrator, corporate sponsorship director, brand manager.	Prerequisites: Un a minimum study (or equivalent) or	nits 3 and score of	l 4: 25 in En	glish
Diploma of Sport (Sport Development)/Diploma of Leadership and Management (SIS50319/BSB51918)	1 yr FT	H EV		С
Become prepared for a career in sports leadership. Delivered in partnership with Richmond Football Club, you will gain skills in high-performance training and nutrition, personal organisation, coaching and leadership, budgeting, project management, people management, safety and compliance.  Career opportunities: Program developer, talent development manager, sport development manager, leisure and recreational facility coordinator, sport and recreation community development officer.	Prerequisites: Su of Victorian Year 1 or relevant work 6	ıccessful 12 or equ	ivalent,	

50 BUSINESS BUSINESS 51 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY

# **DESIGN**

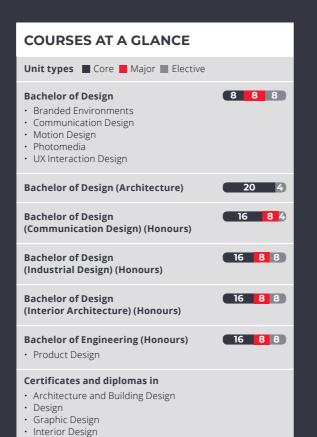
Want to design your own future? Gain the skills and knowledge with our diverse range of design courses. You'll learn in our Advanced Manufacturing and Design Centre, a hub for world-class research and education. You'll also benefit from outstanding industry partnerships, exceptional experiences through the Design Factory Melbourne (part of the Global Design Factory network) and opportunities via our new Innovation Precinct.

Go on to a career in advertising, animation, industrial design, website and app design, furniture design and much more.

# **Professional recognition**

Our design courses are recognised by leading industry organisations. As a Swinburne student, you'll enjoy the benefits of recognition from and membership with the Australasian Interactive Media Industry Association, Australian Graphic Design Association and/or Design Institute of Australia.

Double degrees may provide additional opportunities for membership of industry organisations.





**TOP** 

Photography

Visual Arts Visual Merchandising

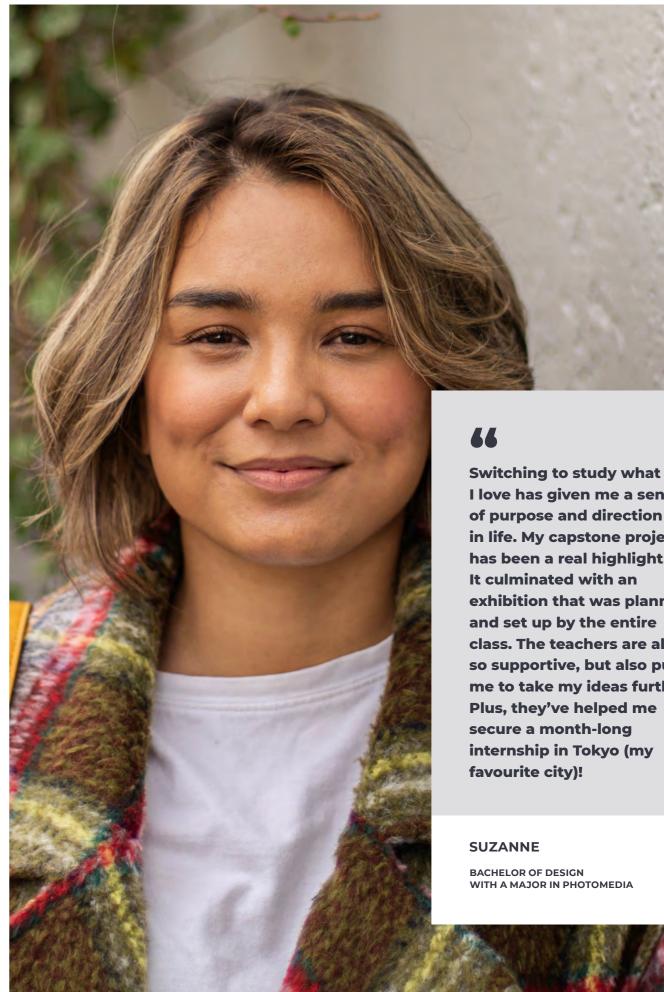
> In the world for art and design

ADOBE CREATIVE **CAMPUS** 

First uni in Australia where students get free access to the Adobe Creative Cloud and over 20 different apps



For overall student experience



I love has given me a sense of purpose and direction in life. My capstone project has been a real highlight. It culminated with an exhibition that was planned and set up by the entire class. The teachers are all so supportive, but also push me to take my ideas further. Plus, they've helped me secure a month-long internship in Tokyo (my

WITH A MAJOR IN PHOTOMEDIA

DESIGN 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY DESIGN

# **DESIGN**

COURSE	<u>C</u>	6	) ☆	₩ W	COURSE	<u>(L)</u>	0		$\Diamond$	W
architecture and building design					Design					
achelor of Design (Architecture)	3 yrs FT/6 yrs F	РТ Н	80^	V or D	Bachelor of Design	3 yrs F	7/6 yrs PT H		70^ V	or
ain a deep understanding of innovative building design. Tackle digital technology, environmental vareness, construction, practice, ethics, history and theory. Resolve a wide array of design challenges by rmulating and actualising innovative design ideas in a series of stages from conception to finished design.   areer opportunities: Architecture roles for private and corporate architecture firms, government ganisations, development companies or in the building and design sector. Further study required practise as an architect.	Prerequisites: a minimum stu (or equivalent)	ıdy scor	e of 25 in Er		No matter what type of design career you're envisioning, a Bachelor of Design will give you the fundamental skills to work as a designer in the industry. Complete core units in first year that intridifferent design fields of study. Choose from five design majors that include branded environme communication design, motion design, photomedia, and UX interaction design.  Career opportunities: Communications designer, exhibition designer, graphic designer, multimedeveloper, advertising consultant, design consultant, user experience designer, photographer.	oduce study s its, or 30 in a minim dia Produci Interact	uisites: Units 3 core of 25 in Eng English (EAL); a um study score Design and Tec ive Digital Medi Media (VCE VET)	glish (or nd Unit of 20 in thnolog a C, Cre	r equivale its 3 and e in one of gy, Media eative an	er 4: Aı a, d
dvanced Diploma of Building Design (Architectural) 22477VIC	2 yrs FT	CI	1	V or D		0	ommunication			
earn about building theory and practice to design and develop drawings for residential, industrial and emmercial buildings. Develop specialist skills and knowledge in design, problem-solving, construction chnology, computer-aided drafting and project administration.  nis course meets the academic requirement for application to the Victorian Building Authority to become registered building design practitioner.  areer opportunities: Building designer, drafting technician.  Branded environments	Prerequisites: of Victorian Yea or relevant wor tradesperson a building design	ar 12 or rk expe and pra	equivalent, ience, or qu	,	Bachelor of Design/Bachelor of Business  Gain the skills necessary to introduce elements of design into business-related studies and apply business principles to design practice to improve commercial outcomes. Choose from five design as well as business majors that include marketing, entrepreneurship and innovation, manageme accounting, information systems, sports management, finance, financial planning, logistics and schain management.  Professional accreditation: See Bachelor of Business (page 46).  Career opportunities: Business consultant, communications designer, graphic designer, multim	majors, study si, or 30 in product Interact Digital N	7/8 yrs PT H  uisites: Units 3  ore of 25 in Eng English (EAL); a  um study score Design and Ter ive Digital Medi Media (VCE VET) ommunication	and 4: a glish (or nd Unit of 20 in thnolog a C, Cre I, Stud	r equivale its 3 and e in one of gy, Media eative an dio Arts o	um en 4: Ar a, d
Bachelor of Design with a major in Branded Environments	3 yrs FT/6 yrs F	PT H	70^	V or D	developer, advertising consultant, design consultant, customer experience designer.					
nis multidisciplinary course integrates communication design, interior architecture and environmental and experience design principles. You'll take a brand's identity beyond the visual, and translate it into three imensions. Learn how to think conceptually and communicate visually in our collaborative studios. xplore contemporary retail design and branding design problems.  areer opportunities: Communications designer, communications researcher, exhibition designer, sual merchandiser, interior designer, set designer.	Prerequisites: a minimum studer (or equivalent) and Units 3 and of 20 in one of Technology, Media C, Creati VET) I, Studio A Communication	or 30 ir or 30 ir d 4: a m Art, Pro edia, Int ive and Arts or V	e of 25 in Er English (EA inimum stud duct Desigr eractive Dig Digital Medi isual	AL); idy score n and gital	Bachelor of Design/Bachelor of Media and Communication  Gain the skills necessary to introduce elements of design into media- and communication-related sapply sound design principles to improve communication outcomes. Acquire knowledge about how evolving through an examination of issues such as ownership, control of the media and the impact technologies on society. Choose from five design majors, as well as media and communication maj include advertising, cinema and screen studies, creative writing and literature, digital advertising tegames and interactivity, journalism, media industries, professional writing and editing, public relati social media.  Professional accreditation: See Bachelor of Media and Communication (page 103).  Career opportunities: Communications designer, exhibition designer, graphic designer, multimes.	tudies and rithe media is of new media or 30 in a minim chnology, lons, and roughly long to the media is or 30 in a minim chnology, lons, and roughly long to the media is the	isites: Units 3 core of 25 in Eng English (EAL); a um study score ive Digital Medi and Technology Media (VCE VET) communication	and 4: a glish (or nd Unit of 20 io a C, Me , Creati I, Stud	r equivale its 3 and e in one of edia, Prod ive and dio Arts o	um ent 4: Ar
Communication design					advertising consultant, marketing and sales professional, public relations officer, media planner, strategist, user experience designer.					
Bachelor of Design (Communication Design) (Honours)	4 yrs FT/8 yrs F	PT H	90^	V or D	Advanced Diploma of Creative Product Development (CUA60415)	1 yr FT	Н			
nevelop your design thinking and practice in order to prepare you to thrive in today's fast-paced digital nvironment. Learn core specialisms such as typography, image-making, brand and identity, 3D form ackaging, information design, web design and publication design. Combine them with strategy, oncept development and design to create razor-sharp ideas that cut through the competition.	Prerequisites: a minimum stur (or equivalent) and Units 3 and of 25 in one of	ıdy scor or 30 ir d 4: a m	e of 25 in Er English (EA inimum stud	AL); idy score	Turn your creative passion into commercial potential. Develop your folio in photography, design, vis and animation, or other creative pursuit, and build skills in design thinking and creative problem so Career opportunities: Animator, artist, multimedia developer, product designer and more.	ual art, games <b>Prereq</b>	uisites: A releva experience.	nt diplo	oma and	
areer opportunities: Communications designer, web designer, UX designer, interaction designer, xperience designer, design consultant.	Technology, Me Media C, Creati VET) I, Studio A	edia, Int ive and	eractive Dig Digital Medi	gital	Diploma of Design (UniLink)	8 mths 16 mth			V	or
	Communication				This higher education diploma provides an alternative pathway to the second year of a bachelor. The units are similar to those offered in the first year of a bachelor degree, but classes are smaller.	r and study s	uisites: Units 3 fore of 20 in En	glish (o	or equiva	ler
achelor of Design with a major in Communication Design	3 yrs FT/6 yrs F			V or D	students have more one-on-one time with teachers. Complete units in digital, interactive and 3D	a minim	English (EAL); a um study score	of 20 i	in one of	Ar
evelop your design with a major in Communication Design  evelop your design thinking and practice in order to prepare you to thrive in today's fast-paced digital nvironment. Learn core specialisms such as typography, image-making, brand and identity, 3D form ackaging, information design, web design and publication design. Combine them with strategy,	3 yrs FT/6 yrs F  Prerequisites: a minimum stu (or equivalent)	: Units 3 Idy scor or 30 ir	e of 25 in Er English (EA	nglish AL);		Interact Digital N	Design and Tedive Digital Medi Media (VCE VET) Ommunication	a C, Cre I, Stud	eative an dio Arts, c	d
oncept development and design to create razor-sharp ideas that cut through the competition.  areer opportunities: Communications designer, web designer, UX designer, interaction designer,	and Units 3 an score of 20 in o				Certificate IV in Design (CUA40715)	1 yr FT	Н		V	or
perience designer, design consultant.	and Technology Media C, Creati (VCE VET) I, Stu Communication	y, Media ive and udio Art	a, Interactive Digital Medi s or Visual	e Digital	Develop and enhance skills in graphic design, interior design, product design and related design Explore the historical and contextual basis for design.  Career opportunities: Graphic artist, graphic designer.	is based relevan	uisites: Entry in I on an applican work history. S may also apply.	nt's stu Some a	ıdy and/c	or

(L) Duration

FT Full-time

PT Part-time

Location W Wantirna

H Hawthorn EV External venue

C Croydon O Online

☆ Entry ATAR

# Minimum entry

RC Range of criteria

please refer to page 23.

^ Guaranteed entry For more information about ATARs,

**⋈** Where to apply

V VTAC

D Direct

54 **DESIGN** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY DESIGN

# **DESIGN**

COURSE	<u>C</u>	0	$\Diamond$	$\boxtimes$
Graphic design				
Advanced Diploma of Graphic Design (CUA60315)	6 mths FT	Н		D
Gain an understanding of the specialised technical, creative and conceptual skills and knowledge needed to conceive, negotiate and realise design concepts for complex projects. Learn skills in both print and digital media, including advertising and promotion, art direction, branding, corporate identity, instructional design, typography, packaging, signage and web design.  Career opportunities: Graphic designer.	<b>Prerequisites:</b> 9 of Diploma of Gr			ion
Diploma of Graphic Design (CUA50715)	1.5 yrs FT	Н		V or D
Learn how to combine technical, creative and conceptual skills to meet design briefs and solve a range of visual communication problems. Assemble camera-ready and digital artwork for graphic reproduction and web-based output.  Career opportunities: Graphic designer.  Industrial design	Prerequisites: 9 of Victorian Year successful comp in Design or equ experience. App a folio of work.	12 or equivalent, or	uivalent, o Certificat r relevant	or e IV t work
	4	- 11	704	V D
Bachelor of Design (Industrial Design) (Honours)	4 yrs FT/8 yrs P	Н	70^	V or D
Learn how to develop products that meet human needs and expectations, ranging from personal and household items to commercial and industrial equipment. Develop creative and technological aptitude through a user-centred design program supported by business studies, professional practice, consumer knowledge, sustainability and design ethics.  Career opportunities: Industrial designer, product designer, usability designer, model maker, computer-aided designer, design consultant.	Prerequisites: I a minimum stud (or equivalent) o and Units 3 and score of 20 in or and Technology, Digital Media C, Media (VCE VET) Communication	y score of r 30 in En 4: a minin e of Art, F Media, In Creative a I, Studio	f 25 in English (EAI num stuc Product D Iteractive	L); ly Design
Interior architecture and design				
Bachelor of Design (Interior Architecture) (Honours)	4 yrs FT/8 yrs P	ГН	70^	V or D
Learn about the environments in which we spend our lives and how they are formed and fabricated.  Learn to capitalise on new technologies and materials in the construction of indoor and outdoor 3D spaces.  Career opportunities: Interior designer, property designer, retail designer, design consultant, business strategist.	Prerequisites: 0 a minimum stud (or equivalent) o and Units 3 and of 20 in one of A and Technology, Digital Media C, Media (VCE VET; Visual Communi	y score of r 30 in En 4: a minin rt, Produc Media, In Creative a I, Studio	25 in English (EAI num stud tt Design teractive and Digita Arts, or	_); ly score
Interior design				
Advanced Diploma of Interior Design (MSF60118)	6 mths FT	Н		D
Build on existing design knowledge and bring complex commercial projects to life using modern 3D visualisation techniques. Develop accelerated knowledge of construction, and the skills to thrive when faced with spatial design problems of all shapes and sizes.	Prerequisites: 9 of the Diploma o			ion
Career opportunities: Interior designer, interior decorator, colour consultant.				
Diploma of Interior Design (MSF50218)	1.5 yrs FT	Н		V or D
Gain the knowledge and skills to create and plan furniture, fittings and surfaces, colour schemes and concepts for commercial and residential settings. Learn how to document your designs in 2D – through drawing, illustration and drafting, then take them one step further with 3D modelling.	Prerequisites: 9 of Victorian Year relevant work ex	12 or equ	uivalent, d	

Career opportunities: Interior designer, interior decorator, colour consultant.

© Duration
FT Full-time
PT Part-time
PT Part-time

© Location
O Online
FV External venue

© Location
W Wantirna
C Croydon
O Online
FV External venue

© Location
W Wantirna
C Croydon
O Online
FV External venue

© Location
FR RC Range of criteria
For more information about ATARs, please refer to page 23.

D Direct

# **Motion design**

COURSE

#### Bachelor of Design with a major in Motion design

Design and motion come together in the future of visual communication. Mixing graphics, type, animation, video, photography and sound, you'll become a creative communicator for the whole range of digital platforms. **Career opportunities:** Motion designer, digital designer, animator, video producer, design consultant.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in one of Art, Product Design and Technology, Media, Interactive Digital Media C, Creative and Digital Media (VCE VET) I, Studio Arts or Visual Communication Design.

3 yrs FT/6 yrs PT H 70<sup>^</sup> V or D

3 yrs FT/6 yrs PT H 70^ V or D

(L)

# **Photography**

#### Bachelor of Design with a major in Photomedia

Get set to turn your concepts into arresting campaigns, publications and digital products. Through photography lessons and workshops on experimental image processing, you'll gain a rich, foundational knowledge of how lighting, art direction, commercial studio practice and cutting-edge technological processes produce truly memorable images.

**Career opportunities:** Photographer, video and motion graphics specialist, advertising consultant, design consultant.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in one of Art, Product Design and Technology, Media, Interactive Digital Media C, Creative and Digital Media (VCE VET) I, Studio Arts or Visual Communication Design.

1 yr FT

#### Diploma of Photography and Photo Imaging (CUA50915)

Learn about the commercial, artistic and technical aspects of photography from practising industry professionals and gain a career that can take you anywhere in the world.

 $\textbf{Career opportunities:} \ \textbf{Photographer}.$ 

Prerequisites: An extensive working knowledge of digital SLR cameras.
Applicants who have completed
Certificate IV in Photo Imaging or a similar visual arts qualification, or who have extensive vocational experience in photo imaging may be given preference.

V or D

### Certificate IV in Photography and Photo Imaging (CUA41115)

 $\label{thm:composition} Gain a broad range of technical skills in digital photography, including composition, lighting, image capture, enhancements, manipulation and output.$ 

Career opportunities: Photographer.

**Prerequisites:** Entry into this program is based on an applicant's study and/or relevant work history. Some additional criteria may also apply.

1 yr FT/2 yrs PT H

5 yrs FT/10 yrs PT H

# Product design engineering

# Bachelor of Engineering (Honours) (Professional) with a major in Product Design Bachelor of Engineering (Honours) with a major in Product Design

This course combines studies in industrial design and engineering, linking the creativity and human-centred approach of industrial design with the academic rigour of engineering science, material and manufacturing process selection, project management and innovation. Develop skills needed to design and develop competitive products for Australian and international markets. Undertake at least 12 weeks of professional experience.

**Professional accreditation:** Professionally accredited by Engineers Australia.

**Professional degree:** This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

**Career opportunities:** Industrial designer, industrial engineer, product designer, product design engineer, entrepreneur, design consultant.

4 yrs FT/8 yrs PT H 75^ V or D **Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or

equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in Mathematical Methods, or Specialist Mathematics.

56 **DESIGN** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY **DESIGN** 

#### (L) Duration FT Full-time PT Part-time

 Location W Wantirna C Croydon O Online

H Hawthorn EV External venue

☆ Entry ATAR # Minimum entry

RC Range of criteria ^ Guaranteed entry For more information about ATARs, please refer to page 23.

**⋈** Where to apply V VTAC

D Direct

#### (L) COURSE

# **UX interaction design**

#### Bachelor of Design with a major in UX Interaction Design

Create a complete user experience from beginning to end. Take on a holistic approach in UX design, from research to storyboarding to prototyping. Develop a working knowledge and literacy in web design, experience design, interaction design, games development, AR and VR applications. Your knowledge in both CSS and HTML will give you a head start in your UX career.

Career opportunities: User experience designer, customer experience designer.

3 yrs FT/6 yrs PT H 70^ V or D

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in one of Art, Interactive Digital Media C, Media, Product Design and Technology, Creative And Digital Media (VCE VET) I, Creative And Digital Media (VCE VET) I, Studio Arts or Visual Communication Design.

#### Visual arts

#### Advanced Diploma of Visual Arts (CUA60715)

Build on your existing art practice knowledge and specialise in your chosen field. Gain the professional, technical and conceptual skills to bring your creative visions to life - through drawing and illustration, digital art, painting, photo media, printmaking, public art or sculpture.

Career opportunities: Visual artist, community arts officer, art curator.

Prerequisites: Successful completion of the Diploma of Visual Arts.

V or D

1 yr FT

#### Diploma of Visual Arts (CUA51115)

Study a progressive, contemporary fine arts course that's run by qualified teachers and practising artists. Make the most of our purpose-built creative workshop – take photos, make prints, videos, drawings and digital images – and then exhibit them in our exhibition space.

Career opportunities: Visual artist, community arts officer, art curator.

1 yr FT V or D Satisfactory completion of Victorian

Year 12 or equivalent, or relevant work experience.

### Visual merchandising

#### Diploma of Visual Merchandising (SIR50217)

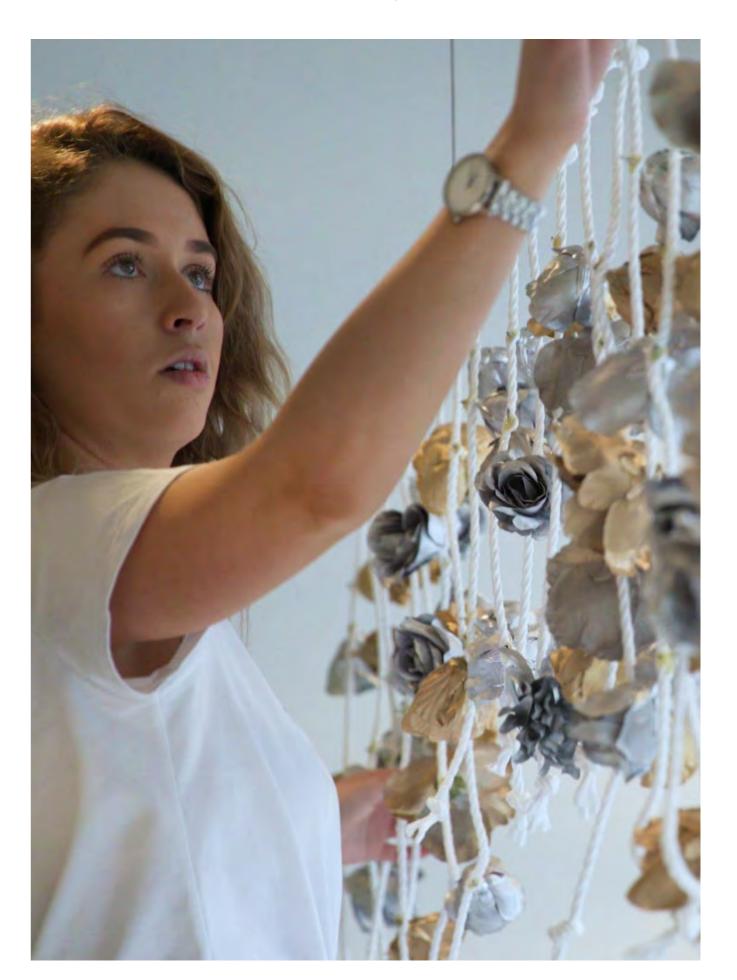
Gain core skills in design principles, history and colour theory, digital styling, window styling, creative collaborations, and hands-on building of props, design and applying signage. As the industry becomes increasingly digital, Swinburne students are well-prepared for roles in online spaces; acquiring the skills for content creation, brand development, and styling for web and social media.

Career opportunities: Retailer, visual merchandiser, fashion stylist, e-commerce product visual merchandiser, event stylist.

V or D Satisfactory completion of Victorian Year 12 or equivalent, or relevant

work experience.





DESIGN 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY DESIGN

# **EDUCATION**

Being involved with educating others is a bit like having a super power - education opens doors, inspires change and shapes lives. Be a superhero, minus the cape.

In our education courses, you'll learn the hands-on skills you need to succeed as an early childhood educator or a primary school teacher. You can explore classroom teaching, discover innovative approaches to learning, as well as undertake multiple practical placements, all underpinned by a problem-based learning approach.

# **Professional recognition**

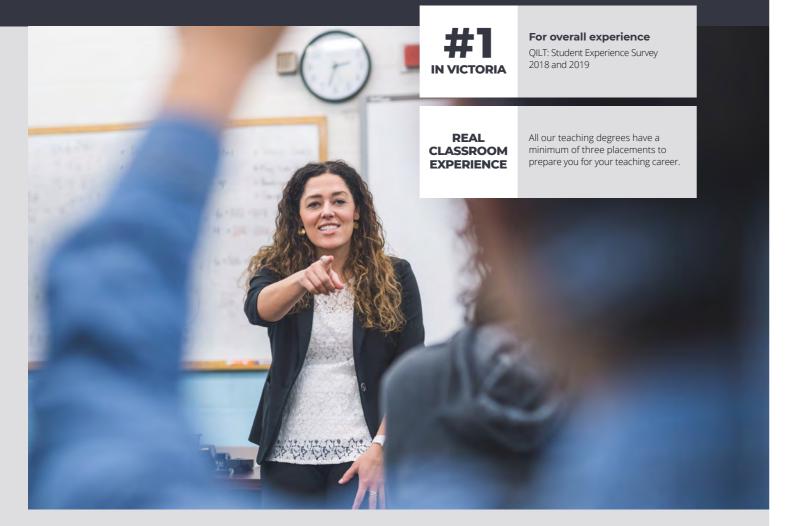
Our teaching degrees are professionally accredited by the Australian Children's Education & Care Quality Authority (ACECQA) and the Victorian Institute of Teaching (VIT) as relevant. Both enable graduates to register and teach Australia-wide.

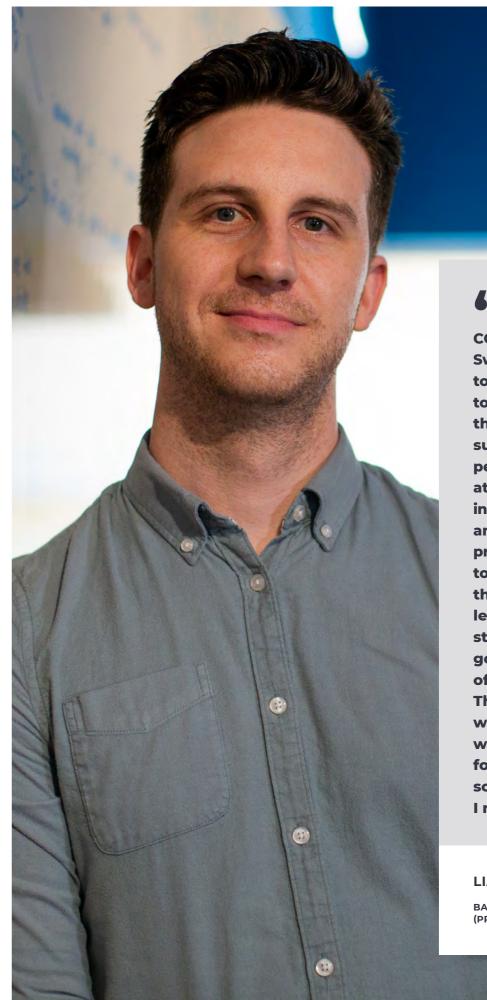
COURSES AT A GLANCE
Unit types ■ Core ■ Elective Prof. Experience
Bachelor of Education 26 15 (Early Childhood and Primary)
Bachelor of Education 24 44 (Early Childhood Teaching)
Bachelor of Education (Primary) 24 44
Bachelor of Education Studies 16 8
Certificates and diplomas in  Early Childhood Education and Care  Education Support  Teacher Education Preparation

**IN VICTORIA** 

For student support

QILT: Student Experience Survey





**COVID-19 has really shown** Swinburne's ability to adapt to significant change, and to support their students through challenges. The support given to me personally during my time at Swinburne has been incredible. From the learning and academic skills centre providing academic support, to a more personal touch through emails from lecturers asking how my studies or placement was going and if they could offer any additional help. These small details are what helped me the most while studying, simply for the fact that I knew someone was there if I needed.

### LIAM

**BACHELOR OF EDUCATION** (PRIMARY)

**EDUCATION** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY **EDUCATION** 

# **EDUCATION**

COURSE	<u>(L)</u>	0	$\Diamond$	$\boxtimes$
Early childhood education and care				
Bachelor of Education (Early Childhood Teaching)	4 yrs FT/8 yrs PT	Н	65^	V or D
Bachelor of Education (Early Childhood Teaching)	4 yrs FT/8 yrs PT	0	65^	D
Prepare to inspire children aged from birth to five years in kindergartens, preschools and early learning centres. You will explore how to nurture curiosity in children and start their lifetime love of learning. Put theory into practice with four professional placements (80 days total) of mentor-guided work-placement experience.  All students are required to have a valid police check and Working With Children Check.	Prerequisites: Un a minimum study s (or equivalent) or 3 All applicants mus	score of 25 30 in Englis	5 in Eng sh (EAL	_).

All students are required to have a valid police check and Working With Children Check. **Professional accreditation:** This degree is professionally accredited by the Australian Children's Education and Care Quality Authority.

Career opportunities: Early childhood educator.

#### Diploma of Early Childhood Education and Care (CHC50113)

Designed for those who are interested in working in the early childhood sector or who are already working in the field and are responsible for planning, implementing and managing programs in early childhood services. In most states this is the highest qualification required at director or service manager level for children's service centre-based care.

All students are required to have a valid police check and Working With Children Check.

Career opportunities: Early childhood educator.

### Certificate III in Early Childhood Education and Care (CHC30113)

Gain the skills and expertise needed for a career with children aged six years and under. The course is the minimum entry qualification for those seeking work in child care.

All students are required to have a valid police check and Working With Children Check.

Career opportunities: Early childhood educator.

### 1.5 yrs FT/3 yrs PT CHW **Prerequisites:** Satistactory completion

Government.

test as required by the Australian

of Victorian Year 12 or equivalent, or relevant work experience. Applicants must be able to perform physical activities.

18 wks FT CHW 36 wks PT Prerequisites: Applicants must be able

to perform physical activities.

Prerequisites: Units 3 and 4:

Government

a minimum study score of 25 in English

All applicants must also sit the CASPer test as required by the Australian

(or equivalent) or 30 in English (EAL).

# Early childhood and primary teaching

Bachelor of Education (Early Childhood and Primary)	4 yrs FT/8 yrs PT	Н	70#	V or D
Bachelor of Education (Early Childhood and Primary)	4 vrs FT/8 vrs PT	0	70#	D

Gain the skills needed to teach children from birth to twelve years in childcare centres, kindergartens and primary schools. You'll study the contexts of education, cultural-historical perspectives and child development, as well as units focusing on specific subject disciplines. You'll complete 91 days of placement throughout the course to put into practice the leadership and management skills you'll learn in your studies and gain practical experience in the classroom.

All students are required to have a valid police check and Working With Children Check.

Professional accreditation: This degree is professionally accredited by the Australian Children's Education and Care Quality Authority, and Victorian Institute of Teaching.

Career opportunities: Childcare director, childcare worker, primary school teacher.

**⋈** Where to apply ( Duration Location W Wantirna ☆ Entry ATAR RC Range of criteria For more information about ATARs, FT Full-time C Croydon O Online Guaranteed entry V VTAC please refer to page 23. PT Part-time H Hawthorn EV External venue # Minimum entry D Direct

# **Educational studies**

COURSE

#### **Bachelor of Education Studies** 3 yrs FT H 60° Vor D

Learn how children learn. Critically review theory and practice in the primary school and early childhood areas. Prerequisites: Units 3 and 4: Plan and implement effective teaching and learning in diverse contexts. Develop the skills for the future education workforce by tailoring your electives to a variety of education environments.

This is not an accredited initial teacher education program. It is not accredited by the Victorian Institute of Teaching (VIT) and does not include professional placements in schools.

Career opportunities: Graduates may work within the field of education in non-teaching roles such as those dedicated to policy, administration or management. Potential employment settings include government, local councils, community programs, galleries and museums, educational agencies, corporate and non-profit groups.

a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

(L)

1 yr FT

1 yr FT

#### Certificate IV in Education Support (CHC40213)

Qualify to work as a teacher assistant supporting the delivery of educational programs. You may work in a primary or secondary school, in a special education setting, or in a community education environment. All students are required to have a valid police check and Working With Children Check.

Career opportunities: Education support worker, teacher assistant.

Prerequisites: Satisfactory completion of Units 3 and 4: English or English (EAL); Units 1 and 2: any Mathematics.

ΗW

V or D

V or D

63

#### Diploma of Teacher Education Preparation (22451VIC)

Gain the skills and knowledge needed to progress to a bachelor degree in education and to help prepare you for work in an educational setting.

Students are required to have a valid police check and Working With Children Check.

Prerequisites: Satisfactory completion of Units 3 and 4: English or English (EAL); Units 1 and 2: any Mathematics.

# Primary teaching

Bachelor of Education (Primary)	4 yrs FT/8 yrs PT	Н	70#	VorD
Bachelor of Education (Primary)	4 yrs FT/8 yrs PT	0	70#	D

Become equipped to be a primary school teacher who uses the latest technology and teaching techniques. Develop the skills to design engaging and effective learning experiences through group work and school-based practical placements.

All students are required to have a valid police check and Working With Children Check.

Professional accreditation: This degree is professionally accredited by the Victorian Institute of Teaching. Career opportunities: Primary school teacher.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL). All applicants must also sit the CASPer test as required by the Australian Government.



**EDUCATION** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY **EDUCATION** 

# **ENGINEERING**

Engineers have the potential to change the way we live. (And with great power, comes great responsibility.) From civil and mechanical, to biomedical, electrical, and software engineering, our courses will provide you with the comprehensive theory and practical skills you'll need to thrive in your engineering career.

With an engineering degree, you could go on to a career in the medical, building or construction, software, transport, industrial design, energy, or civil infrastructure industries.

### **Professional recognition**

Our engineering courses are recognised by leading industry organisations. Graduates may be eligible for membership of a number of organisations relevant to their major area of study, including the Australasian College of Physical Scientists and Engineers in Medicine, Design Institute of Australia and Engineers Australia.

Double degrees may provide additional opportunities for membership of leading industry organisations.

Our engineering degrees are professionally accredited by Engineers Australia. Graduates are also eligible to register with the Board of Engineers Malaysia (BEM).

### **COURSES AT A GLANCE**

**Unit types** ■ Core ■ Major ■ Elective Accred. Placement

12 16 4

### Bachelor of Engineering (Honours)

- Architectural
- BiomedicalCivil
- Electrical and Electronic
- Mechanical
- Product Design
- · Robotics and Mechatronics
- Software

#### Certificates and diplomas in

- · Civil Engineering
- Construction
- Electric and Electronic
- Mechanical EngineeringRobotics and Mechatronics

TOP 100

**GLOBALLY** 

For civil engineering

2019 Academic Ranking of World Universities

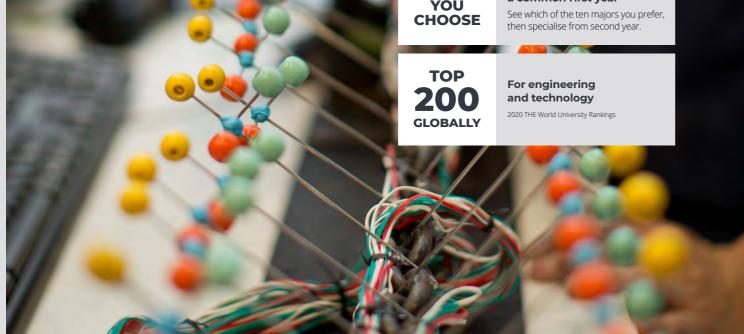
TOP 200 GLOBALLY

For mechanical engineering

2019 Academic Ranking of World Universities



Our Bachelor of Engineering (Honours) has a common first year





4 ENGINEERING 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY ENGINEERING

# **ENGINEERING**

COURSE	<u>(L)</u>	0	$\Diamond$	B
Architectural engineering				
Bachelor of Engineering (Honours) (Professional) with a major in Architectural	5 yrs FT/10 yrs PT	Н	85^	V
Bachelor of Engineering (Honours) with a major in Architectural	4 yrs FT/8 yrs PT	Н	75^	V or D
Combine innovative design principles with an engineering approach to architecture. Gain the technical expertise and management skills needed to plan, design and build spaces that people want to live and work n. Apply best practices in sustainability, health and wellbeing, and SMART technology to architecture. Undertake at least 12 weeks of professional experience.  Professional accreditation: This degree is professionally accredited by Engineers Australia.	Prerequisites: Un a minimum study s (or equivalent) or 3 and Units 3 and 4: score of 20 in Math or Specialist Mathe	score of 2 30 in Engl a minimu nematica	25 in En lish (EAI um stuc	_); Iy
Professional degree: This degree extends the standard degree to include a professional placement to-major comprising a 12-month work placement.	or specialist water	cinducts.		
co-major comprising a 12-month work placement. Career opportunities: Design engineer, structural systems engineer, architectural engineer, project engineer.				
Biomedical engineering				
Bachelor of Engineering (Honours) (Professional) with a major in Biomedical	5 yrs FT/10 yrs PT	Н	85^	V
Bachelor of Engineering (Honours) with a major in Biomedical		Н	75^	V or D
Learn about the application of electrical, electronics and systems engineering in medicine and biology.  Learn how to develop and use new technologies such as medical instrumentation and prosthetic devices that can be used to advance and improve healthcare and quality of life. Undertake at least 12 weeks of professional experience.  Professional accreditation: This degree is professionally accredited by Engineers Australia.	Prerequisites: Un a minimum study s (or equivalent) or 3 and Units 3 and 4: score of 20 in Math	score of 2 30 in Engl a minimu	25 in En lish (EAI um stuc	_); Iy
Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.	or Specialist Mathe	ematics.		
Career opportunities: Biomedical engineer, clinical engineer, medical device designer, medical electronics engineer.				
Civil engineering				
Bachelor of Engineering (Honours) (Professional) with a major in Civil	5 yrs FT/10 yrs PT	Н	85^	V
Bachelor of Engineering (Honours) with a major in Civil	4 yrs FT/8 yrs PT	Н	75^	V or D
Gain technical expertise and management skills needed to plan, design, construct and maintain infrastructure such as buildings, bridges, dams, water supply systems, waste treatment systems, road and rail networks, airports and seaports. Undertake at least 12 weeks of professional experience.  Professional accreditation: This degree is professionally accredited by Engineers Australia.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Civil engineer, civil design engineer, structural engineer, environmental engineer.	Prerequisites: Un a minimum study s (or equivalent) or 3 and Units 3 and 4: score of 20 in Math or Specialist Mathe	score of 2 30 in Engl a minimu nematica	25 in En lish (EAI um stuc	_); ly
Advanced Diploma of Engineering Technology (22479VIC) - Civil Engineering Design	2yrs FT/4 yrs PT	Н		V or D
Gain technical skills and knowledge needed to apply engineering and scientific principles when managing, designing or executing projects.  Career opportunities: Draftsperson, technical officer, construction supervisor.	<b>Prerequisites:</b> Sat of Victorian Year 1. or relevant work ex	2 or equi	valent,	etion
Electrical and electronic				
Bachelor of Engineering (Honours) (Professional) with a major in Electrical and Electronic	5 yrs FT/10 yrs PT	Н	85^	V
Bachelor of Engineering (Honours) with a major in Electrical and Electronic	4 yrs FT/8 yrs PT	Н	75^	V or D
Gain technical expertise in power system design, electronics, control systems, signal processing and embedded systems. Learn how to apply skills and knowledge in the design, construction, operation and maintenance of electronics and electrical energy infrastructure. Undertake at least 12 weeks of professional experience.	Prerequisites: Un a minimum study s (or equivalent) of 3 and 4 minimum study s and Units 3 and 4 minimum study s are of 20 in Mark	score of 2 30 in Engl a minimu	25 in En lish (EAl um stuc	_); ly
Professional accreditation: This degree is professionally accredited by Engineers Australia.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.	score of 20 in Math or Specialist Math		ı ivletho	us
Career opportunities: Flectrical engineer electronics engineer communications engineer				

Career opportunities: Electrical engineer, electronics engineer, communications engineer,

power engineer, design engineer.

( Duration Location W Wantirna ☆ Entry ATAR RC Range of criteria **⋈** Where to apply ^ Guaranteed entry For more information about ATARs, FT Full-time C Croydon O Online V VTAC please refer to page 23. PT Part-time H Hawthorn EV External venue # Minimum entry D Direct COURSE **Electrical and electronic (continued)** Advanced Diploma of Engineering Technology - Electrical (UEE62111) 2 yrs FT Build the skills needed to evaluate, design, update and implement industrial automation systems to Prerequisites: Satisfactory completion a technical and pre-degree level. Gain a working knowledge of hydraulics, pneumatics, programming, of Victorian Year 12 or equivalent, or relevant work experience robotics, industrial networking and electrical engineering. **Career opportunities:** Technical officer, systems technician, electrical technician, service technician. Certificate III in Electronics and Communications (UEE30911) 4 yrs PT Gain a background in electronics, with an emphasis on digital technology, gate array technologies Prerequisites: Satisfactory completion and the application of microcontrollers, communications and analogue electronics. of Victorian Year 11 or equivalent. Career opportunities: Technical officer, systems technician, electrical technician, service technician. **Engineering** Bachelor of Engineering (Honours) (Professional) 5 yrs FT/10 yrs PT H **Bachelor of Engineering (Honours)** 4 yrs FT/8 yrs PT H Complete core units in first year that introduce different engineering fields of study. Choose from majors: Prerequisites: Units 3 and 4: architectural, biomedical, civil, electrical and electronic, mechanical, product design, robotics and mechatronics, a minimum study score of 25 in English software. Undertake at least 12 weeks of professional experience. (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study Professional accreditation: This degree is professionally accredited by Engineers Australia. score of 20 in Mathematical Methods Professional degree: This degree extends the standard degree to include a professional placement or Specialist Mathematics. co-major comprising a 12-month work placement. Career opportunities: Networking engineer, electronics designer, manufacturing specialist, communications engineer, civil infrastructure engineer, construction engineer, design engineer, software systems developer, biomedical engineer, robotics developer. Bachelor of Engineering (Honours)/Bachelor of Business 5 yrs FT/10 yrs PT H 75<sup>^</sup> V or D Develop your ability to lead innovation and change by combining engineering expertise with sought-after Prerequisites: Units 3 and 4: business skills. Complete core units in your first year to assist in selecting from a wide range of majors. a minimum study score of 25 in English You will also undertake at least 12 weeks of professional engineering experience. (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study Professional accreditation: See Bachelor of Business (page 46) and Bachelor of Engineering (Honours). score of 20 in Mathematical Methods Career opportunities: Networking engineer, electronics designer, manufacturing specialist, civil infrastructure or Specialist Mathematics. engineer, project manager, engineering consultant, entrepreneur, business owner, business manager, process improvement manager, product manager, product design engineer, marketing specialist, business analyst, business development manager. Bachelor of Engineering (Honours)/Bachelor of Computer Science 5 yrs FT/10 yrs PT H 75^ V or D Combine technical expertise in an engineering field of your choice with skills in software development Prerequisites: Units 3 and 4: or online security. Complete core units in your first year to assist in selecting from a wide range of majors. a minimum study score of 25 in English Undertake at least 12 weeks of professional experience in engineering. (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study Professional accreditation: See Bachelor of Computer Science (page 90) and Bachelor of Engineering (Honours). score of 20 in Mathematical Methods Career opportunities: Software developer, design engineer, cybersecurity consultant, systems analyst, or Specialist Mathematics. network administrator, project manager Bachelor of Engineering (Honours)/Bachelor of Science 5 yrs FT/10 yrs PT H 75<sup>^</sup> V or D Build your understanding of scientific principles and use this knowledge to design engineering solutions Prerequisites: Units 3 and 4: that help society. Undertake at least 12 weeks of relevant professional experience. a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); Professional accreditation: See Bachelor of Engineering (Honours). and Units 3 and 4: a minimum study Career opportunities: Communications engineer, civil infrastructure engineer, biologist, industrial chemist, score of 20 in Mathematical Methods food technologist, environmental scientist or Specialist Mathematics. Bachelor of Laws/Bachelor of Engineering (Honours) 6.5 yrs FT/13 yrs PT H 85° V or D

Combine a law degree focusing on commercial and intellectual property law with technical engineering skills in an engineering discipline of your choice. Explore trademarks, patents and designs, copyright, the prohibition

knowledge by participating in workshops and industry projects. Undertake at least 12 weeks of professional

of misleading or deceptive conduct, and competition law. Obtain theoretical and practical engineering

Professional accreditation: See Bachelor of Engineering (Honours) and Bachelor of Laws (page 98).

Career opportunities: Solicitor, lawyer, legal adviser, corporate counsellor, manager, compliance and regulation manager, project manager, entrepreneur, intellectual property lawyer, commercial lawyer, start-up legal adviser, software engineer, civil engineer, biomedical engineer, industrial engineer, robotics and

experience in engineering, as well as three practical law-related professional experiences.

Prerequisites: Units 3 and 4:

or Specialist Mathematics.

a minimum study score of 25 in English

(or equivalent) or 30 in English (EAL);

and Units 3 and 4: a minimum study

score of 20 in Mathematical Methods

67

ENGINEERING 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY ENGINEERING

mechatronics engineer.

# **ENGINEERING**

fluid power systems technician.

COURSE	<u>(L)</u>	0	$\Diamond$	$\bowtie$
Engineering (continued)				
Associate Degree of Applied Technologies	2 yrs FT/4 yrs PT	Н	RC	V or [
Digitalisation and Industry 4.0 demands fresh new skills and knowledge which can be transferred to the workforce of the future. This course will equip you with essential professional and technical skills in one of four specialisations: advanced manufacturing, civil Infrastructure, building information modelling or cloud technologies. Engage in project-based learning using real construction projects with opportunities to collaborate and network with industry partners.  Career opportunities: Service technician, engineering technician, site installation technician, BIM coordinator.	Prerequisites: U a minimum study (or equivalent) or and Units 3 and 4 score of 20 in any	score of 2 30 in Eng : a minim	25 in Eng lish (EAl um stud	);
Associate Degree of Engineering	2 yrs FT/4 yrs PT	Н	60^	V or [
This course is a broad-based point of entry into employment as an associate engineer and offers the chance to move into study at bachelor level. Learn about civil engineering, electrical engineering, engineering management and mechanical engineering.  Career opportunities: Para-professional engineer, engineering officer, associate engineer.	Prerequisites: U a minimum study (or equivalent) or and Units 3 and 4 score of 20 in any	score of 2 30 in Eng : a minim	25 in Eng lish (EAl um stud	);
Diploma of Engineering (UniLink)	8 mths FT 16 mths PT	Н		V or E
This higher education diploma provides an alternative pathway to the second year of a bachelor degree.  Complete units in electronic systems, energy and motion, calculus and applications, materials and processes, mechanics of structures, digital and data systems, engineering, design and innovation.  Mechanical	Prerequisites: U a minimum study (or equivalent) or and Units 3 and 4 score of 20 in Mai or Specialist Math	score of 2 25 in Eng : a minima :hematica	20 in Eng lish (EAL um stud	_); ly
Bachelor of Engineering (Honours) (Professional) with a major in Mechanical	5 yrs FT/10 yrs P1	Н	85^	\
Bachelor of Engineering (Honours) with a major in Mechanical	4 yrs FT/8 yrs PT	Н	75^	V or E
Learn the core concepts of mechanics, kinematics, thermodynamics, fluid mechanics and energy.  Go beyond the classroom and participate in industry projects and practical workshops.  Undertake at least 12 weeks of professional experience.  Professional accreditation: This degree is professionally accredited by Engineers Australia.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Mechanical engineer, mechanical project engineer, design engineer, project and technology manager, engineering project manager.	Prerequisites: U a minimum study (or equivalent) or and Units 3 and 4 score of 20 in Mai or Specialist Math	score of 2 30 in Eng : a minim :hematica	25 in Eng lish (EAl um stud	_); ly
Advanced Diploma of Engineering Technology (22479VIC) - Mechanical Engineering Design	2 yrs FT/4 yrs PT	Н		V or D
Gain technical skills and knowledge needed to apply engineering and scientific principles when managing, designing or executing projects.  Career opportunities: Mechanical officer, maintenance technician, draftsperson.	<b>Prerequisites:</b> Sa of Victorian Year or relevant work 6	12 or equi	valent,	etion
Certificate IV in Engineering (MEM40119)	3 yrs PT	W		[
Develop skills to advance to positions of responsibility in manufacturing industries. Select one specialisation from: fabrication, CNC machining, or maintenance and fluid power.  Career opportunities: Advanced mechanical maintenance technician, advanced toolmaker,	Prerequisites: The requirements for			

**⋈** Where to apply ( Duration O Location W Wantirna ☆ Entry ATAR RC Range of criteria ^ Guaranteed entry For more information about ATARs, FT Full-time C Croydon O Online V VTAC please refer to page 23. PT Part-time H Hawthorn EV External venue # Minimum entry D Direct

# **Product design engineering**

Bachelor of Engineering (Honours) (Professional) with a major in Product Design	5 yrs FT/10 yrs PT	Н	85^	V
Bachelor of Engineering (Honours) with a major in Product Design	4 yrs FT/8 yrs PT			V or D

This course combines studies in industrial design and engineering, linking the creativity and human-centred approach of industrial design with the academic rigour of engineering science, material and manufacturing process selection, project management and innovation. Develop skills needed to design and develop competitive equivalent) or 30 in English (EAL); and products for Australian and international markets. Undertake at least 12 weeks of professional experience.

**Professional accreditation:** This degree is professionally accredited by Engineers Australia. Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Industrial designer, industrial engineer, product designer, product design engineer, entrepreneur, design consultant.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or Units 3 and 4: a minimum study score of 20 in Mathematical Methods or Specialist Mathematics.

### **Robotics and mechatronics**

COURSE

Bachelor of Engineering (Honours) (Professional) with a major in Robotics and Mechatronics	5 yrs FT/10 yrs PT	Н	85^	V
Bachelor of Engineering (Honours) with a major in Robotics and Mechatronics	4 yrs FT/8 yrs PT	Н	75^	V or D

This course integrates three traditional engineering disciplines – mechanical, electronics and software. Complete units in computer-aided engineering, control systems, electronics, machine dynamics and design, mechatronics systems design and development, programming, project management and structural mechanics.

**Professional accreditation:** This degree is professionally accredited by Engineers Australia. Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Robotics and mechatronics engineer, control systems engineer, factory automation adviser, robotics developer.

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in Mathematical Methods or Specialist Mathematics.

#### Advanced Diploma of Engineering Technology (22479VIC) - Mechatronics Engineering Design

Gain technical skills and knowledge needed to apply engineering and scientific principles when managing, designing or executing projects.

Career opportunities: Technical officer, systems technician, draftsperson.

Prerequisites: Satisfactory completion of Victorian Year 12/or equivalent, or relevant work experience.

2 yrs FT/4 yrs PT H

# Software engineering

co-major comprising a 12-month work placement.

Bachelor of Engineering (Honours) (Professional) with a major in Software	5 yrs FT/10 yrs PT	Н	85^	V
Bachelor of Engineering (Honours) with a major in Software	4 yrs FT/8 yrs PT	Н	75^	V or D

Learn advanced software engineering with an emphasis on teamwork, problem-solving and practical software engineering skills, including quality assurance, project management and industry-standard development techniques and tools. Undertake at least 12 weeks of professional experience. Undertake at least 12 weeks of professional experience.

**Professional accreditation:** This degree is professionally accredited by Engineers Australia. Professional degree: This degree extends the standard degree to include a professional placement

Career opportunities: Software engineer, software systems developer, software modeller, project and technology manager.

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in Mathematical Methods or Specialist Mathematics.

ENGINEERING 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY ENGINEERING 69



# **FILM AND TELEVISION**

We understand the big picture – and the small screen. Our leading film school's range of film and TV courses combine foundational knowledge with practical skills that will ensure you're well equipped for your career ahead. From working behind the scenes to screenwriting or producing special effects, our students have gone on to showcase work and win awards in local and international film festivals.

Whatever future you can picture, it all begins here. Maybe make space on your mantelpiece for that Oscar now?

### **Professional recognition**

Our film and television courses are recognised by leading industry organisations. Graduates may be eligible for membership of a number of organisations relevant to their major area of study, including the Australian Cinematographers Society, Australian Graphic Designers Association, Australian Screen Editors Guild, Design Institute of Australia, Games Developers' Association of Australia, Melbourne Art Directors Club, Screen Producers Association of Australia and Screen Services Association of Victoria.



# WORLD'S BEST

"Swinburne is the finest film/video production school in the world" according to Hunter Todd, Founding Director of WorldFest-Houston International Film Fest.

#### BERLIN PREMIERE

Graduate Takumi Kawakami's short film *Paper Crane* premiered at the 68<sup>th</sup> Berlin International Film Festival.



Graduate Nick Kozakis directed the video for *Dance Monkey* by Tones and I, which was #1 in 30 countries, viewed more than 480 million times on YouTube, and nominated for Best Video at the ARIAs.



O ENGINEERING 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY FILM AND TELEVISION 7



## **Getting Oscar attention**

An Oscar-shortlisted short film was an impossible dream when they started a Bachelor of Film and Television at Swinburne. But for Andrew Goldsmith and Bradley Slabe, along with fellow alumni Rennie Watson and Dave Abbott, it became a very exciting reality when their seven-minute animated stop-motion film, Lost & Found, was shortlisted for the 2019 Academy Awards. It took the team three years of story development, 14 months of shooting and almost 6,000 hours of work to bring the film to life, and it all began at Swinburne. "Swinburne had a reputation for being a top film course that was both theoretical and hands-on, which appealed a lot to me," says co-director Andrew. "Another valuable part of the course was forming relationships with people who are the future of the industry."

# ANDREW GOLDSMITH AND BRADLEY SLABE, RENNIE WATSON, DAVE ABBOTT

FILM AND TELEVISION (ANDREW AND BRADLEY), DESIGN (RENNIE), AND MULTIMEDIA AND MEDIA STUDIES (DAVE).

# **FILM AND TELEVISION**

COURSE	(L)	0		W
Animation				
Bachelor of Animation	3 yrs FT/6 yrs PT	Н	65^	Vor
The Bachelor of Animation is designed to provide students with practical, hands-on experience in 2D, 3D and stop-motion animation for film and television, visual effects and games. Learn about film, television and animation history and theory; and the development of narrative structures as applied to animation.  Career opportunities: 2D and 3D animators, stop motion animator, director, producer, screenwriter, editor.	Prerequisites: U a minimum study (or equivalent) or	score of	25 in En	_
Bachelor of Games and Interactivity/Bachelor of Animation	4 yrs FT/8 yrs PT	Н	65^	Vorl
Gain a competitive edge in the fields of animation and games development. Develop a broad understanding of animation through the practice of animation techniques. Learn about film, television and animation history and theory; as well as the role of games in contemporary society and how games are developing as a cultural industry. Become equipped with the skills needed to work in the rapidly evolving animation and games industries as well as the broader digital media sector.  Career opportunities: Cinematographer, 2D and 3D animators, stop motion animator, games developer, media producer, multimedia developer, video games developer.	Prerequisites: U a minimum study (or equivalent) or	nits 3 and score of	25 in En	
Advanced Diploma of Screen and Media (CUA60615) – Animation	1 yr FT	Н		V or l
Gain a range of skills in creative and technical applications of motion graphics and animation. Learn about screen and media processes. Learn pre-visualisation and storyboarding techniques, and production processes for animation, including 2D and 3D animation and special effects.  Career opportunities: Animator, visual effects designer, digital artist, production coordinator, motion effects developer, 2D animator, 3D animator.	Prerequisites: S of Diploma in Scr (specialising in Ar or relevant exper	een and N nimation)	леdia	
Diploma of Screen and Media (CUA51015) – Animation	1 yr FT	Н		V or [
Engage in a dynamic, creative and technical approach to the production of animation content for the screen	Prerequisites: S	aticfactor	v compl	etion
and media industries. Learn pre-visualisation and storyboarding techniques, and production processes for animation, including 2D and 3D animation and special effects.  Career opportunities: Animator, visual effects designer, digital artist, production coordinator,	of Victorian Year relevant work ex	12 or equ		
and media industries. Learn pre-visualisation and storyboarding techniques, and production processes for animation, including 2D and 3D animation and special effects.  Career opportunities: Animator, visual effects designer, digital artist, production coordinator, motion effects developer, 2D animator, 3D animator.  Film and screen production	of Victorian Year relevant work ex	12 or equ perience.	ivalent c	or
and media industries. Learn pre-visualisation and storyboarding techniques, and production processes for animation, including 2D and 3D animation and special effects.  Career opportunities: Animator, visual effects designer, digital artist, production coordinator, motion effects developer, 2D animator, 3D animator.  Film and screen production  Bachelor of Film and Television (Honours)	of Victorian Year relevant work ex 4 yrs FT/8 yrs PT	12 or equ perience. H	ivalent d	or
and media industries. Learn pre-visualisation and storyboarding techniques, and production processes for animation, including 2D and 3D animation and special effects.  Career opportunities: Animator, visual effects designer, digital artist, production coordinator, motion effects developer, 2D animator, 3D animator.  Film and screen production	of Victorian Year relevant work ex	12 or equoerience.  H  nits 3 and score of	85# 4: 25 in En	v or t
and media industries. Learn pre-visualisation and storyboarding techniques, and production processes for animation, including 2D and 3D animation and special effects.  Career opportunities: Animator, visual effects designer, digital artist, production coordinator, motion effects developer, 2D animator, 3D animator.  Film and screen production  Bachelor of Film and Television (Honours)  Gain the essential creative skills, technical knowledge and theory to make high-quality cinema, television and digital media productions. Collaborate to make films through research, screenwriting, direction, project management and production skills such as cinematography, sound editing and visual effects.	of Victorian Year relevant work ex 4 yrs FT/8 yrs PT <b>Prerequisites:</b> U a minimum study	12 or equ perience. H nits 3 and y score of 30 in Eng	85# 4: 25 in En	V or ( glish L).
and media industries. Learn pre-visualisation and storyboarding techniques, and production processes for animation, including 2D and 3D animation and special effects.  Career opportunities: Animator, visual effects designer, digital artist, production coordinator, motion effects developer, 2D animator, 3D animator.  Film and screen production  Bachelor of Film and Television (Honours)  Gain the essential creative skills, technical knowledge and theory to make high-quality cinema, television and digital media productions. Collaborate to make films through research, screenwriting, direction, project management and production skills such as cinematography, sound editing and visual effects.  Career opportunities: Screenwriter, director, cinematographer, editor, producer, post production manager.	4 yrs FT/8 yrs PT  Prerequisites: U a minimum study (or equivalent) or	H nits 3 and score of 30 in Eng	85# 14: 25 in En, glish (EAI 60^ 14: 25 in En,	V or [ glish L). V or [ glish
and media industries. Learn pre-visualisation and storyboarding techniques, and production processes for animation, including 2D and 3D animation and special effects.  Career opportunities: Animator, visual effects designer, digital artist, production coordinator, motion effects developer, 2D animator, 3D animator.  Film and screen production  Bachelor of Film and Television (Honours)  Gain the essential creative skills, technical knowledge and theory to make high-quality cinema, television and digital media productions. Collaborate to make films through research, screenwriting, direction, project management and production skills such as cinematography, sound editing and visual effects.  Career opportunities: Screenwriter, director, cinematographer, editor, producer, post production manager.  Bachelor of Screen Production  Gain an understanding of how technological shifts are driving changes across a broad range of established and emerging media industries. Learn the digital literacy and media production skills required for multiple broadcast platforms including smartphones, networked environments and social media applications.	4 yrs FT/8 yrs PT  Prerequisites: L a minimum study (or equivalent) or  3 yrs FT/6 yrs PT  Prerequisites: L a minimum study	H nits 3 and score of 30 in Eng	85# 14: 25 in En, glish (EAI 60^ 14: 25 in En,	V or I glish L). V or I glish
and media industries. Learn pre-visualisation and storyboarding techniques, and production processes for animation, including 2D and 3D animation and special effects.  Career opportunities: Animator, visual effects designer, digital artist, production coordinator, motion effects developer, 2D animator, 3D animator.  Film and screen production  Bachelor of Film and Television (Honours)  Gain the essential creative skills, technical knowledge and theory to make high-quality cinema, television and digital media productions. Collaborate to make films through research, screenwriting, direction, project management and production skills such as cinematography, sound editing and visual effects.  Career opportunities: Screenwriter, director, cinematographer, editor, producer, post production manager.  Bachelor of Screen Production  Gain an understanding of how technological shifts are driving changes across a broad range of established and emerging media industries. Learn the digital literacy and media production skills required for multiple broadcast platforms including smartphones, networked environments and social media applications.  Career opportunities: Digital media producer, digital sound production, social media specialist, digital project manager, digital media consultant.  Advanced Diploma of Screen and Media (CUA60615) - Film and Television	4 yrs FT/8 yrs PT  Prerequisites: Ua minimum study (or equivalent) or   3 yrs FT/6 yrs PT  Prerequisites: Ua minimum study (or equivalent) or   1 yr FT	H nits 3 and score of 30 in Eng	85# d 4: 25 in En, glish (EAI 60^ d 4: 25 in En, glish (EAI	V or I glish L). V or I glish L).
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☆ Entry ATAR

# Minimum entry

RC Range of criteria

please refer to page 23.

^ Guaranteed entry For more information about ATARs,

**⋈** Where to apply

V VTAC

D Direct

FILM AND TELEVISION 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY FILM AND TELEVISION 73

(L) Duration

FT Full-time

PT Part-time

O Location W Wantirna

H Hawthorn EV External venue

C Croydon O Online

# **FILM AND TELEVISION**

COURSE

## Screen and media

Certificate IV in Screen and Media (CUA41215)

Gain foundation skills and knowledge to pursue employment and/or further training in animation, visual effects, digital art, radio production and presentation, and film and television production.

Career opportunities: Technical assistant, production assistant, assistant director, camera operator, audio and visual editor.

Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent or relevant work experience

## Sports media

Diploma of Screen and Media (CUA51015) - Sports Media

Develop the skills and knowledge to produce sports content for the screen and media industries. Gain skills in sports journalism, writing, commentary, media management, social media, photography, and audio and video production. You'll graduate with a portfolio of work to enhance your employment opportunities.

Career opportunities: Sports journalist, sports commentator, sports writer, sports researcher/programmer, sports public relations writer or a multimedia/digital content producer within sports marketing and media.

Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, or relevant work experience.



(L) Duration FT Full-time PT Part-time

O Location

W Wantirna

C Croydon O Online H Hawthorn EV External venue ☆ Entry ATAR

Guaranteed entry # Minimum entry

RC Range of criteria For more information about ATARs, please refer to page 23.

**⋈** Where to apply V VTAC

D Direct

# **GAMES AND ANIMATION**

Keen to kick-start an exciting future in the games and animation industry? Combining design principles with hands-on production skills and creative techniques, our courses will open your mind to creating for the digital space.

We'll introduce you to the latest technologies used in digital media and the skills that will equip you for a successful career in gaming, digital media and more. Ready. Set. Play.

## **Professional recognition**

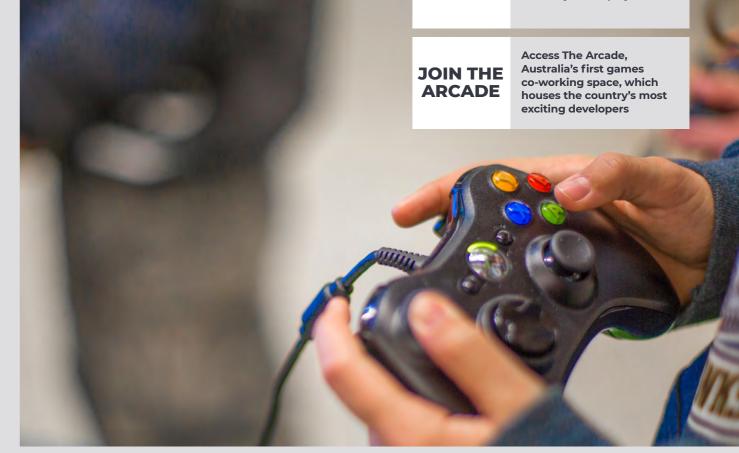
Our games and animation courses are recognised by leading industry organisations. As a Swinburne student, you'll gain recognition from and membership with the Games Developers' Association of Australia and the Australian Interactive Media Industry Association.

Our computer science degrees are professionally accredited by Australian Computer Society (ACS).



## **PLAY** AT PAX!

Final-year students design, create and showcase games for everyone to play at PAX



FILM AND TELEVISION 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY **GAMES AND ANIMATION** 



## Best student game in the world

It's a pretty handy credit to add to your LinkedIn profile. And it's one that a group of Swinburne students claimed at LA's prestigious The Game Awards in 2017. Their entry, a 2D puzzle platformer game called *Level Squared* (or *LVL*<sup>2</sup>), won the inaugural Student Game Award, beating out entries from all over the world. Not bad for a first effort.

In accepting the award, design lead and student Stephen said Swinburne is "the best place in Australia to learn how to make games". The entire team, known as Glitch Crab Studios, said that having access to The Arcade and the mentorship of Swinburne's teachers were crucial to their success.

# **GAMES AND ANIMATION**

COURSE	<u>C</u>	0	$\triangle$	M
Animation				
Bachelor of Animation	3 yrs FT/6 yrs PT	Н	65^	Vor
Set practical, hands-on experience in 2D, 3D and stop-motion animation for film and television, isual effects and games. Learn about film, television and animation history and theory; and the levelopment of narrative structures as applied to animation.  **Career opportunities:** Cinematographer, editor, 2D and 3D animators, stop motion animator,	<b>Prerequisites:</b> Ur a minimum study (or equivalent) or	score of 2	25 in En	
lirector, producer, screenwriter.  Bachelor of Games and Interactivity/Bachelor of Animation	4 yrs FT/8 yrs PT	ш	65^	Vor
Gain a competitive edge in the fields of animation and games development. Acquire a broad understanding of animation through the practice of animation techniques. Learn about film, television and animation history and theory; as well as the role of games in contemporary society and how games are developing as a cultural industry. Become equipped with the skills needed to work in the rapidly evolving animation and games and ustries as well as the broader digital media sector.	Prerequisites: Ur a minimum study (or equivalent) or	nits 3 and score of 2	4: 25 in En	glish
Career opportunities: Cinematographer, 2D and 3D animators, stop motion animator, games developer, nedia producer, multimedia developer, video games developer.				
Advanced Diploma of Screen and Media (CUA60615) – Animation	1 yr FT	Н		Vor
Gain a range of skills in creative and technical applications of motion graphics and animation. Learn about creen and media processes. Learn pre-visualisation and storyboarding techniques, and production processes for animation, including 2D and 3D animation and special effects.  Career opportunities: Animator, visual effects designer, digital artist, production coordinator, notion effects developer, 2D animator, 3D animator.	<b>Prerequisites:</b> Su of Diploma in Scre (specialising in An or relevant experi	en and M imation) o	1edia	
Diploma of Screen and Media (CUA51015) – Animation	1 yr FT	Н		Vor
ingage in a dynamic, creative and technical approach to the production of animation content for the screen and media industries. Learn pre-visualisation and storyboarding techniques, and production processes or animation, including 2D and 3D animation and special effects.  Career opportunities: Animator, visual effects designer, digital artist, production coordinator,	<b>Prerequisites:</b> Sa of Victorian Year 1 or relevant work 6	2 or equi	valent,	etion
notion effects developer, 2D animator, 3D animator.				
Certificate IV in Screen and Media (CUA41215)	1 yr FT	Н		Vor
Gain foundation skills and knowledge to pursue employment and/or further training in animation, isual effects, digital art, radio production and presentation, and film and television production.  Career opportunities: Technical assistant, production assistant, lighting assistant, assistant director, amera operator/assistant, sound editor.	Prerequisites: Sa of Victorian Year 1 or relevant work e	2 or equi	valent,	etion
Digital and interactive games				
Diploma of Digital and Interactive Games (ICT50215)	1 yr FT	Н		Vor
Gain the knowledge and skills to create 3D characters, models and animations. Learn about C# programming, nobile development, particle effects and object oriented programming. Undertake a major project to develop I game from design through to completion using the Unity game engine.	Games or equival	Digital ar	nd Inter	
Career opportunities: Multimedia designer, multimedia producer, 2D animator, 3D animator, texture artist, tames developer.	experience.			
Certificate IV in Digital and Interactive Games (ICT40915)	1 yr FT	Н		Vor
earn about games design, game development using the Unity game engine, programming, 3D modelling and animation, and project management.  Career opportunities: Multimedia designer, multimedia producer, 2D animator, 3D animator, texture artist,	Prerequisites: En is based on an ap relevant work hist criteria may also a	plicant's s ory. Some	study ar	nd/or

© Duration
FT Full-time
PT Part-time
PT Par

GAMES AND ANIMATION 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY GAMES AND ANIMATION

# **GAMES AND ANIMATION**

data solution manager.

COURSE	<u>C</u>	0	$\Diamond$	M
Games and interactivity				
Bachelor of Arts (Professional) with a major in Games and Interactivity	4 yrs FT/8 yrs PT	Н	80^	\
Bachelor of Arts with a major in Games and Interactivity	3 yrs FT/6 yrs PT	Н	60^	V or E
Undertake a range of projects focusing on analog and digital games, and develop practical and creative research and communication skills in a games lab environment.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Games developer, media producer, multimedia developer.	<b>Prerequisites:</b> Ur a minimum study (or equivalent) or	score of 2	5 in En	_
Bachelor of Games and Interactivity	3 yrs FT/6 yrs PT	Н	65^	V or E
Learn about the role of games in contemporary society and how games are developing as a cultural industry. Undertake a range of projects focusing on analog and digital games, and develop practical and creative research and communication skills in a games lab environment.  Also see Arts and Humanities (page 28) and Media and Communication (page 103).  Career opportunities: Games developer, multimedia developer.	Prerequisites: Ur a minimum study (or equivalent) or	score of 2	5 in En	
Bachelor of Games and Interactivity/Bachelor of Animation	4 yrs FT/8 yrs PT	Н	65^	V or [
Gain a competitive edge in the fields of animation and games development. Acquire a broad understanding of animation through the practice of animation techniques. Learn about film, television and animation history and theory, as well as the role of games in contemporary society and how games are developing as a cultural industry. Become equipped with the skills needed to work in the rapidly evolving animation and games industries as well as the broader digital media sector.  Career opportunities: Games developer, cinematographer, 2D and 3D animators, stop motion animator, media producer, multimedia developer, video games developer.	Prerequisites: Ur a minimum study (or equivalent) or	nits 3 and score of 2	5 in En	
Bachelor of Games and Interactivity/Bachelor of Computer Science	4yrs FT/8yrs PT	Н	70^	V or D
Gain a broad range of multimedia production skills, including web, animation and digital video/audio, combined with skills in software development required to develop games and interactive applications.  Professional accreditation: See Bachelor of Computer Science (page 91).  Career opportunities: Video games developer, computer programmer, animator.	Prerequisites: Ur a minimum study (or equivalent) or and Units 1 and 2 completion of two combination) of ar (excluding Founda	score of 2 30 in Engl : satisfacto units (ang ny Mather	25 in Engish (EAI ory y study matics	_);
Bachelor of Media and Communication (Professional) with a major in Games and Interactivity	4 yrs FT/8 yrs PT	Н	80^	\
Bachelor of Media and Communication with a major in Games and Interactivity	3 yrs FT/6 yrs PT	Н	60^	V or E
Develop your professional communication and media content creation skills. Learn how the media sector is evolving through an examination of issues such as diversity, the influence of social networking data, ownership and privacy, automated media and the digital economy. Undertake a range of projects focusing on analog and digital games. Develop practical and creative research and communication skills in a games lab environment.  Professional accreditation: See Bachelor of Media and Communication (page 103).  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Games developer, media producer, multimedia developer.	Prerequisites: Ur a minimum study (or equivalent) or	score of 2	5 in En	_
Games development				
Bachelor of Computer Science (Professional) with a major in Games Development	4 yrs FT/8 yrs PT	Н	80^	\
Bachelor of Computer Science with a major in Games Development	3 yrs FT/6 yrs PT	Н	70^	V or [
Focus on the design and programming of computer games and other interactive software. Gain skills in software development using an object-oriented approach and specialist areas in games design and development. Learn about the creative and design aspects of multimedia and internet technologies, particularly as applied to games development.  Professional accreditation: See Bachelor of Computer Science (page 91).  Professional degree: This degree extends the standard degree to include a professional placement	Prerequisites: Ur a minimum study (or equivalent) or and Units 1 and 2 completion of two combination) of al (excluding Founda	score of 2 30 in Engl : satisfacto ) units (ang ny Mather	25 in Engish (EAI ory y study matics	_);
co-major comprising a 12-month work placement.  Career opportunities: Software developer, video games developer, computer programmer,	fexcinniil R Fonige	iloii Mäll	15).	

(L) Duration Location W Wantirna ☆ Entry ATAR FT Full-time C Croydon O Online PT Part-time H Hawthorn EV External venue

# Minimum entry

RC Range of criteria ^ Guaranteed entry For more information about ATARs, please refer to page 23.

(L)

1 yr FT

**⋈** Where to apply V VTAC

V or D

D Direct

## **Motion design**

COURSE

## Bachelor of Design with a major in Motion Design

Design and motion come together in the future of visual communication. Mixing graphics, type, animation, video, photography and sound, you'll become a creative communicator for the whole range of digital platforms.

**Career opportunities:** Motion designer, digital designer, animator, video producer, design consultant.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in one of Art, Product Design and Technology, Media, Interactive Digital Media C, Creative And Digital Media (VCE VET) I, Studio Arts or Visual Communication Design.

3 yrs FT/6 yrs PT H 70^ V or D

## Website design and development

## Diploma of Information Technology (ICT50118) - Website Design and Development

Learn the skills and knowledge needed to work in a range of front-end design and development roles. Develop skills in web design that focus on user experience (UX) and user interface (UI) design, plus, gain experience in web development with an emphasis on creating dynamic database-driven content.

Career opportunities: Web developer, web animator, project manager.

Prerequisites: Satisfactory completion of Year 12 or equivalent or relevant work experience.



**GAMES AND ANIMATION** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY GAMES AND ANIMATION

# **HEALTH**

Health is about more than just kale and crunches. From counselling and nutrition, to exercise science and psychology, services provided by healthcare professionals are integral to improving the lives of our communities.

In our health courses, you'll examine the physical, psychological and social aspects of health, develop specialised skills and put them into practice through clinical placements. You'll discover how technology is disrupting and improving the industry, and learn in brand new facilities furnished with the latest equipment.

## **Professional recognition**

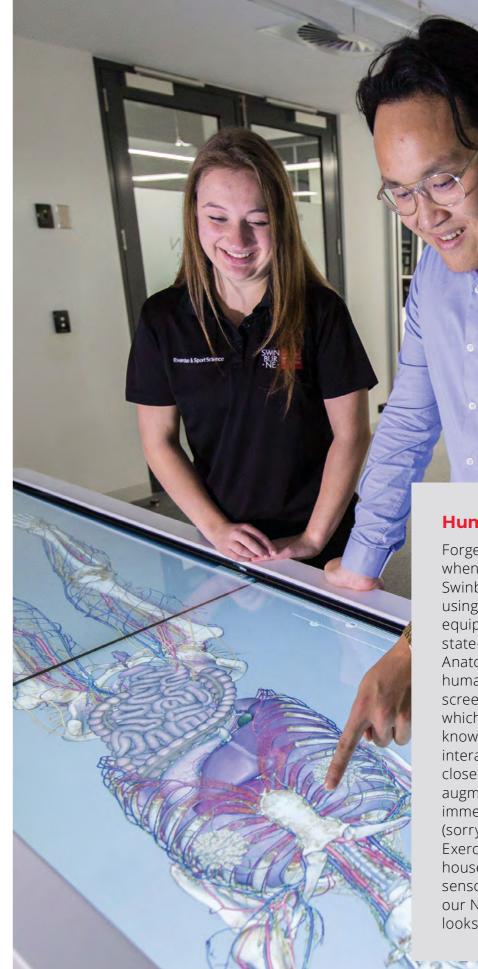
All of our three-year undergraduate majors in psychology are professionally accredited by the Australian Psychology Accreditation Council.



## PATHWAYS TO POSTGRAD

Prep yourself for a master degree in dietetics, occupational therapy, counselling, physiotherapy and more





## **Human-sized iPads?**

Forget just staring at textbooks when you study health at Swinburne, you'll also be learning using the latest technology and equipment in our brand-new, state-of-the-art facilities. Like our Anatomy Lab. Learn about the human body using large interactive screens (think human-sized iPads), which allow you to expand your knowledge and understanding in an interactive way. Then take an even closer look at life with our augmented reality technology, immersing you right in the heart (sorry!) of things. That's not all. Our Exercise Physiology Laboratory houses the latest physiological and sensor technology equipment and our Nutrition and Dietetics Kitchen looks MasterChef-worthy.

HEALTH 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY

# **HEALTH**

COURSE	<u>C</u>	0		B
Biomedical science				
Bachelor of Health Science (Professional) with a major in Biomedical Science	4 yrs FT/8 yrs PT	Н	80^	\
Bachelor of Health Science with a major in Biomedical Science	3 yrs FT/6 yrs PT	Н	60^	V or E
Explore biology, medicine, disease, chemistry and physiology to form a comprehensive understanding of the health of humans. You will learn skills to investigate and understand human biology, and gain the ability to critically analyse and interpret biomedical and scientific data.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Biomedical technician, hospital scientist, biotechnology product developer, clinical trials coordinator, medical laboratory scientist, microbiology technical officer, research scientist, physiologist, tissue culture technician.	Prerequisites: Un a minimum study: (or equivalent) or: It is recommended selecting the Biom completed some p Mathematics.	score of 2 30 in Engl d that stu- nedical ma	25 in English (EAI dents ajor hav	_).
Clinical technologies				
Bachelor of Health Science (Professional) with a major in Clinical Technologies	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Health Science with a major in Clinical Technologies	3 yrs FT/6 yrs PT	Н	60^	V or D
Develop an understanding of how the human body functions through anatomy and physiology. Take your knowledge further by learning about diagnostic medical monitoring – and see what technology can reveal about human health and disease. The skills and expertise gained in this major are essential for a career in Australia's best hospitals and research laboratories who use cutting-edge medical monitoring devices.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Clinical physiologist, cardiac scientist, respiratory scientist, clinical neurophysiologist, biomedical device specialist.	Prerequisites: Un a minimum study (or equivalent) or I It is recommender selecting the Clinic have completed so Mathematics.	score of 2 30 in Engl d that stu- cal Techno	25 in English (EAI dents ologies	_). major
Community services	1 F	CHW		\/ [
Diploma of Community Services (CHC52015)	1.5 yrs FT	CHW		V or D
Gain the knowledge and skills to work in the community services sector in residential and community settings. Learn how to provide a holistic approach to client needs, including social, emotional, psychological and practical support. The Hawthorn course is professionally accredited by the Australian Community Workers Association. For more information on accreditation, please visit our website.  Students are required to have a valid police check and Working With Children Check.  Career opportunities: Family support worker, case worker, juvenile justice worker, child protection worker, mental health support worker.	Prerequisites: Sa Year 12 or equival without formal qu to apply. Applicant 18 years of age, ha With Children Che and demonstrate and numeracy.	ent. Non- alificatior ts must b ave a valid ck, valid f	school l ns are w e at lead I Workir Police C	leavers elcome st ng heck,
Certificate IV in Allied Health Assistance (Physiotherapy, Occupational Therapy) (HLT43015)	6 mths FT	W		V or D
Learn how to develop and manage therapeutic programs to deliver holistic care to clients with rehabilitation needs. Gain the knowledge and skills needed to support allied health professional such as physiotherapists and occupational therapists. Students are required to have a valid police check and Working With Children Check.  Career opportunities: Allied health assistant.	Prerequisites: En is based on an app relevant work hist have a valid Worki valid Police Check	olicant's s ory. Appli ng With C	tudy an cants m	id/or nust
Certificate IV in Community Services (CHC42015)	1 yr FT	CHW		V or D
Gain the knowledge and skills to work in the community services sector as a case or support worker. Learn how to design and deliver programs, as well as intervention processes.  Career opportunities: Family support worker, case worker, juvenile justice worker, child protection worker, mental health support worker.	<b>Prerequisites:</b> Sa of year 12 or equivibe at least 17 year	/alent. Ap		
Certificate IV in Mental Health (CHC43315)	6 mths FT	W		V or D
Gain the knowledge and skills to work in community mental health. Designed with a balance between theory and practical learning, this course delves into topics such as mental health recovery and the promotion of ongoing wellbeing. Students are required to have a valid police check and Working With Children Check.  Career opportunities: Mental health support worker, mental health case worker.	<b>Prerequisites:</b> Sa of Victorian Year 1 relevant work exp	2 or equi		
Certificate IV in Youth Work (CHC40413)	1 yr FT	ΗW		V or D
Become prepared to work with and support young people. Gain the skills and knowledge required to develop and implement programs that address the social, behavioural, health, welfare, developmental and protection needs of young people.  Students are required to have a valid police check and Working With Children Check.  Career opportunities: Youth worker, support worker (youth), community development worker (youth),	Prerequisites: Sa of Year 12 or equivalent least 18 year Working With Child Check, and demor literacy and nume	valent. Ap s of age, l dren Che nstrate co	plicants have a v ck, valid	s must valid I Police

juvenile justice worker, recreational activities youth worker.

© Duration       © Location       W Wantirna       ☆ Entry ATAR       RC Range of company         FT Full-time       C Croydon       O Online       ^ Guaranteed entry       For more information         PT Part-time       H Hawthorn       EV External venue       # Minimum entry       please refer to present to pre	mation about ATARs,	V V	/here to TAC irect	apply
COURSE		0	$\Diamond$	Ø
Community services (continued)				
Certificate IV in Mental Health Peer Work (CHC43515)	1 yr PT	W		D
Use your lived experience with mental health issues to assist others. Develop therapeutic communication and coaching skills, as well as knowledge of current legislation affecting the operation of mental health services, including the NDIS. Provide support and hope to others with mental health issues.  Career opportunities: Peer Practitioner, Mental Health Peer Support Worker, Consumer Advocate, Carer and Family Peer Support.	Prerequisites: Lithealth issue or as a mental health is with internet, mich Applicants without with significant reare welcome to all a valid Working W Police Check, and of placement.	a carer of s ssue. Access rophone ar it formal qu levant work oply. Applica ith Childrer	someone s to a com nd web-ca ualification k experien ants mus n Check, v	with nputer am. ns but nce st have valid
Certificate III in Health Services Assistance (HLT33115)	14 wks FT	W		D
Develop the foundational skills required to work directly with patients under the supervision of profession health staff in a highly functioning health system. Your understanding of how to assist and support these staff is critical to the care of patients and clients.  Career opportunities: Health services assistant, hospital orderly, personal care assistant, patient service assistant, ward assistant.	based on an appl relevant work hist	icant's stud tory. Applica ons but with perience are will need to	ly and/or ants with h significa e welcome o demons	out ant e to strate
Certificate III in Individual Support (Ageing) (CHC33015)	6 mths FT	W		D
Learn how to provide physical and social support to individuals and within the aged care community. Grow your skills in interpersonal communication, relationship building, and caring for people with diverse needs. This course also includes a clinical work placement.  Students are required to have a valid police check and Working With Children Check.  Career opportunities: Individual support worker in aged care, home, and community setting.		licant's stu story. Appl king With ( k, and den	udy and/o icants m Children ( nonstrate	or ust Check, e
Certificate III in Individual Support (Disability) (CHC33015)	6 mths FT	W		D
This industry-designed qualification will give you the skills, knowledge and values to provide individual care to people with disabilities in residential, community, health care and NDIS settings. Enable people with disabilities to become more independent and get involved in community and recreational activities. Empower people to live rich and full lives.  Students are required to have a valid police check and Working With Children Check.  Career opportunities: Disability support worker, personal care assistant, residential care officer, accommodation support worker, or NDIS support worker.  Exercise science	Prerequisites: E is based on an a relevant work his have a valid Wor valid Police Chec competency in li	pplicant's s story. Appl king With ( k, and den	study and icants m Children ( nonstrate	d/or ust Check, e
Bachelor of Exercise and Sport Science	3 yrs FT/6 yrs PT	Н	60^	V or D
Develop the skills to improve the health, fitness and performance of individuals and teams through training coaching and advice. Learn how to navigate the increasingly digitised exercise and sport industry through access to cutting-edge laboratories and technology, including wearable sensors, virtual reality and 3D and equipment. Gain real-world experience through industry-based entrepreneurial and research projects.  Career opportunities: Sports scientist, performance analyst, coaching/development officer, strength and conditioning specialist, cardiac technician.	ng, <b>Prerequisites:</b> L study score of 25	Jnits 3 and 5 in English ) in English minimum s	n (or n (EAL); ar	nd
Health promotion				
Bachelor of Health Science (Professional) with a major in Health Promotion	4 yrs FT/8 yrs PT		80^	٧
Bachelor of Health Science with a major in Health Promotion	3 yrs FT/6 yrs PT			V or D
Develop an understanding of how health promotion is essential for addressing contemporary health, soci and environmental challenges and enabling people to take control over their lives. Gain skills and knowled in health science, statistics, cultural studies, communication and leadership.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Community developer, health education and promotion officer, policy developer, government officer, community officer, project officer.		y score of 2	25 in Eng	

82 HEALTH 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY HEALTH

## HEALTH

COURSE	(L)	0	$\Diamond$	Ø
Health science				
Bachelor of Health Science (Professional)	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Health Science	3 yrs FT/6 yrs PT	Н	60^	V or D
Explore Australian and international health challenges from a range of perspectives. Examine the physical, psychological and social aspects of health in a variety of settings. Choose from a wide range of major study areas, including clinical technologies, biomedical sciences, health promotion, neuroscience, nutrition, psychology and psychophysiology, psychology and forensic science. The Psychology and Psychophysiology, and Psychology and Forensic Science majors within the Bachelor of Health Science course are accredited by the Australian Psychology Accreditation Council (APAC).  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Medical researcher, community worker, health policy developer, clinical technologist, hospital scientist, healthcare consultant, health communication officer, nutritionist and more.	Prerequisites: Ur a minimum study (or equivalent) or	score of 2	25 in En	
Bachelor of Health Science/Bachelor of Arts	4 yrs FT/8 yrs PT	Н	60^	V or D
Be equipped with a wide range of research and analytical skills and specialise in multiple disciplines across health, humanities and media. Choose from a diverse range of health science and arts majors to create an engaging program to suit a wide range of graduate employment outcomes.  Career opportunities: Recent graduates have gone on to work in government, health research, medicine, nutrition, community work, journalism, film and advertising.	Prerequisites: Ur a minimum study (or equivalent) or	score of 2	25 in En	0
Bachelor of Health Science/Bachelor of Business	4 yrs FT/8 yrs PT	Н	60^	V or D
Explore Australian and international health challenges. Examine the physical, psychological and social aspects of health in a variety of settings. Gain core skills and knowledge in business, management and operations to prepare for work in modern organisations.  Professional accreditation: See Bachelor of Business (page 46) and Bachelor of Health Science.  Career opportunities: Medical researcher, data scientist, biomedical scientist, business manager, public relations officer, project manager.	Prerequisites: Ur a minimum study (or equivalent) or	score of 2	25 in En	
Bachelor of Health Science/Bachelor of Media and Communication	4 yrs FT/8 yrs PT	Н	60^	V or D
Explore Australian and international health challenges. Examine the physical, psychological and social aspects of health in a variety of settings. Gain knowledge about how the media is evolving through an examination of issues such as diversity, the influence of social networking data, ownership and privacy, automated media and the digital economy.  Professional accreditation: See Bachelor of Health Science and Media and Communication (page 103).  Career opportunities: Medical researcher, data scientist, biomedical scientist, health communicator, public relations officer, advertising consultant, journalist, journal editor.	Prerequisites: Un a minimum study (or equivalent) or	score of 2	25 in En	
Bachelor of Health Science/Bachelor of Science	4 yrs FT/8 yrs PT	Н	65^	V or D
Explore Australian and international health challenges. Examine the physical, psychological and social aspects of health in a variety of settings. Gain skills, knowledge and key theoretical insights required to work in a range of professional scientific environments.  Professional accreditation: See Bachelor of Health Science and Science (page 117).  Career opportunities: Medical researcher, data scientist, biomedical scientist, biologist, industrial chemist, environmental scientist.	Prerequisites: Ur a minimum study (or equivalent) or Units 3 and 4: a m of 20 in any Mathe	score of 2 30 in Eng iinimum s	25 in En lish (EAl	L);
Diploma of Health Science (UniLink)	8 mths FT 16 mths PT	Н		V or D
This higher education diploma provides an alternative pathway to the second year of a bachelor degree. The units are similar to those offered in the first year of a bachelor degree, but classes are smaller and students have more one-on-one time with teachers. Complete units in biology, statistics and physiology.	Prerequisites: Ur a minimum study (or equivalent) or	score of 2	20 in En	

FT Full-time C	Croydon O	Online ^	Guaranteed entry	RC Range of criteria  For more information about ATARs, please refer to page 23.	<ul><li>₩ Where to apply</li><li>V VTAC</li><li>D Direct</li></ul>
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## **Neuroscience**

COURSE

Bachelor of Health Science (Professional) with a major in Neuroscience	4 yrs FT/8 yrs PT		80^	V	
Bachelor of Health Science with a major in Neuroscience	3 yrs FT/6 yrs PT	Н	60^	V or D	
Learn how the human nervous system operates. Gain an understanding of the molecular processes that underlied the development of the provous system the collular physiology of pouroes, clinical pouroeacatomy, the higherical	•		alich		

the development of the nervous system, the cellular physiology of neurons, clinical neuroanatomy, the biological a minimum study score of 25 in English basis of behaviour and how chemicals within our environment effect our behaviour. Discover cutting-edge technologies for measuring nervous system function as well as contemporary research in neurobiology. Professional degree: This degree extends the standard degree to include a professional placement

co-major comprising a 12-month work placement. Career opportunities: Neuroscientist, pharmaceutical representative, medical device technician, medical scientist, clinical neurophysiology technologist, clinical trials manager, sleep technician.

(or equivalent) or 30 in English (EAL).

## Non-emergency patient transport

Certificate III in Non-Emergency Patient Transport (HLT31115)	6 mths FT	W EV	D
Gain the skills and knowledge to provide safe, non-emergency transport and care for patients suffering from an illness or disability. Develop the confidence to deliver first aid, drive non-emergency vehicles,	•	A full Victorian dr	
provide appropriate patient accessment and follow procedures for safe patient transfers			*

Career opportunities: Non-emergency patient transport worker for organisations such as Royal Flying Doctors, Ambulance Victoria, local hospitals and private companies.

licences will not be accepted.

## **Nutrition**

Bachelor of Health Science (Professional) with a major in Nutrition	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Health Science with a major in Nutrition	3 yrs FT/6 yrs PT	Н	60^	V or D

Explore the fields of nutritional and food science in relation to contemporary issues in health science. Gain an understanding of food sources, metabolic functions of carbohydrates, proteins, vitamins and minerals along with the biological, psychological, cultural and social determinants of food choices in order to understand the role of nutrition in health across the lifespan.

**Professional degree:** This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Nutritionist, nutrition analyst, nutrition teacher, nutrition researcher, public health worker, health program developer, digital content developer.

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

## Paramedical science

Diploma of Paramedical Science (HLT51015)	6 mths FT	W	D
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Become an invaluable member of the healthcare industry and work as an Ambulance Transport Attendant (ATA). Gain real industry experience with 160 hours of clinical placement through our industry partner Health Select. This course will also prepare you to work in pre-hospital and out-of-hospital care.

Career opportunities: Ambulance Transport Attendant (ATA), Patient Transport Officer (PTO) or an Ambulance Community Officer (ACO) with Ambulance Victoria (in rural areas)

Prerequisites: Successful completion of the Certificate III in Non-Emergency Patient Transport (HLT31115).

## Psychology and forensic science

Bachelor of Health Science (Professional) with a major in Psychology and Forensic Science	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Health Science with a major in Psychology and Forensic Science	3 yrs FT/6 yrs PT	Н	60^	V or D

Gain specialist knowledge about the application of psychology to aspects of the law, the justice system and forensic science, as well as statistical skills relevant to forensic issues. Complete research projects, specialist units in research design and project units related to forensic psychology.

**Professional accreditation:** The three-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council.

**Professional degree:** This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Psychologist or forensic psychologist (with further study), behavioural therapist, medical researcher, counsellor, youth worker.

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

HEALTH 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY HEALTH



## Psychology and psychophysiology

accredited by the Australian Psychology Accreditation Council.

Bachelor of Health Science (Professional) with a major in Psychology and Psychophysiology	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Health Science with a major in Psychology and Psychophysiology	3 yrs FT/6 yrs PT	Н	60^	V or D

Gain a broad introduction to a range of relevant studies in psychology, including cognition, developmental psychology, social psychology, personality, design and measurement, psychological measurement and abnormal a minimum study score of 25 in English psychology. Learn about physiological processes relevant to the study of psychology and address neuroanatomy; (or equivalent) or 30 in English (EAL).

neurophysiology; physiological responses to sleep, dreaming, memory and cognition; and brain disorders. **Professional accreditation:** The three-year undergraduate major in psychology is professionally

**Professional degree:** This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Scientist, technologist, psychologist (with further study), psychophysiologist (with further study).

Prerequisites: Units 3 and 4:

## Sports management

Diploma of Sport (Sport Development)/Diploma of Leadership and Management (SIS50319/BSB51918) 1 yr FT

Become prepared for a career in sport leadership. Delivered in partnership with Richmond Football Club, you will gain skills in high-performance training and nutrition, personal organisation, coaching and leadership, budgeting, project management, people management, safety and compliance.

 $\textbf{Career opportunities:} \ \textbf{Program developer, talent development manager, sport development manager,} \\$ leisure and recreational facility co-ordinator, sport and recreation community development officer.

Diploma of Sport (SIS50319)

Gain the skills and knowledge to pursue roles in the sports business sector. Learn about negotiation and risk management, legal and ethical responsibilities, team leadership, managing media relationships, strategy and resource allocation, and how to communicate with stakeholders, volunteers and athletes.

Career opportunities: Competition manager, program developer, talent development manager, sport development manager, leisure and recreational facility coordinator.

Certificate IV in Allied Health Assistance (HLT43015) - Sport and Fitness

Gain core skills such as fitness, physiotherapy, community heath, and wellbeing. The course includes two placements, one in either a hospital or community rehabilitation setting, and the other working within the fitness industry. You'll learn how to deliver therapeutic programs, provide quality care in hospital, and gain experience in community rehabilitation and sport and fitness environments. Certifications include Senior First Aid, Mental Health First Aid, and Level 1 Sport Trainer (Sports Medicine Australia)..

Career opportunities: Allied Health Assistant with a focus on the health and fitness industry.

**Prerequisites:** Successful completion of Victorian Year 12 or equivalent, or relevant work experience.

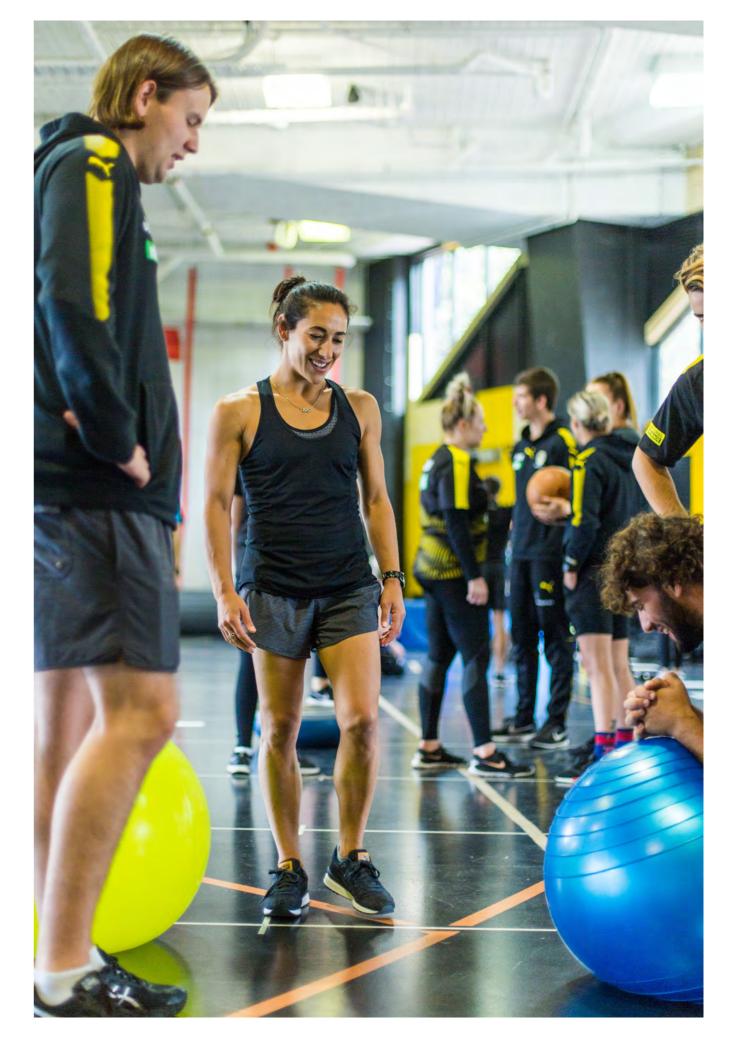
H EV

Prerequisites: Successful completion of Victorian Year 12 or equivalent. Relevant work history will be considered and all applicants will undergo an interview. Some additional criteria may apply.

9 mths FT Н

Prerequisites: Entry into this program is based on an applicant's study and/ or relevant work history. Applicants must have a valid Working With Children Check, and Police Check..





**HEALTH** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY **HEALTH** 

**OUR COURSES AT A GLANCE** 

**Bachelor of Business** 

· Information Systems

**Bachelor of Business** 

**Information Systems** 

 Business Analysis Data Analytics

**Unit types** ■ Core ■ Major ■ Elective ■ Prof. Placement

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8 8 8

Today, tech is in everything. From the dinner you order, to the products you click and collect, to the video call you just made. If you want to rule the world, you'd better know your tech. And that's where the University of Technology comes in. Our information technology courses are known for providing the foundational knowledge and industry skills needed to apply tech to a range of settings.

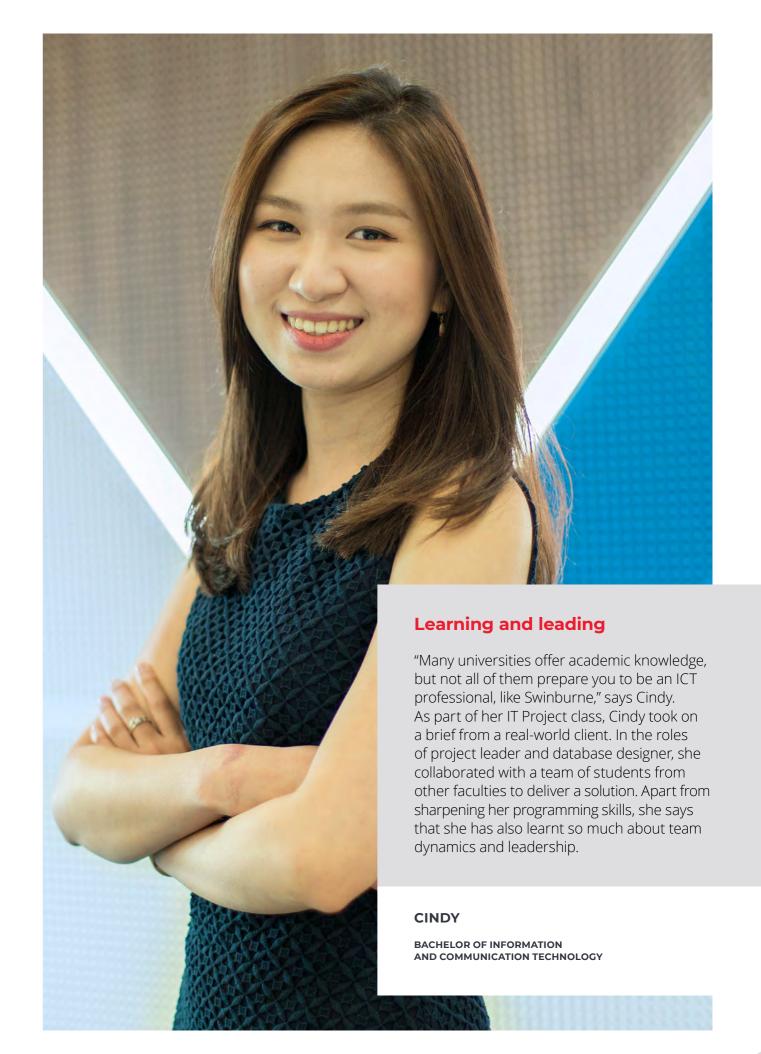
health, transport, finance, media, manufacturing, energy and beyond.

Computer Society (ACS). The Bachelor of Engineering (Honours) with a major in software is professionally accredited by Engineers Australia.

of leading industry organisations.







INFORMATION TECHNOLOGY 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY INFORMATION TECHNOLOGY

design and implementation of effective human-computer interfaces. Develop skills in a range of

Professional accreditation: This degree is professionally accredited by the Australian Computer Society.

**Professional placement:** The Bachelor of Computer Science (Professional) includes a 12-month work placement. **Career opportunities:** Software developer, games developer, cybersecurity consultant, data analyst,

programming languages, including C++, C#, Objective C and Java.

digital developer, IT consultant, network designer.

COURSE	<u>(-</u> )	0		M
Business analysis				
Bachelor of Business Information Systems with a major in Business Analysis	3 yrs FT/6 yrs PT	Н	60^	V or [
Develop the skills to analyse the requirements of users and learn how to transform business through technology. Discover approaches to analysing economic, social and environmental challenges and developing creative solutions that enable success.  Career opportunities: Systems analyst, systems architect, business analyst, requirements analyst.	<b>Prerequisites:</b> Units 3 and 4: a minimum study score of 25 in Englis (or equivalent) or 30 in English (EAL).			
Business information systems				
Bachelor of Business (Professional) with a major in Information Systems	4 yrs FT/8 yrs PT	Н	80^	,
Bachelor of Business with a major in Information Systems	3 yrs FT/6 yrs PT	Н	60^	V or I
Learn about business analysis and problem-solving, systems analysis, project management, the provision of information systems services, social media in organisations and mobile business.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Business IT manager, business analyst, information architect, manager, IT consultant, systems analyst and tester.	Prerequisites: Un a minimum study (or equivalent) or 3	score of 2	5 in En	_
Bachelor of Business Information Systems	3 yrs FT/6 yrs PT	Н	60^	V or [
Become prepared for immediate entry into the management of business information systems in organisations. Learn about business analysis and problem-solving, systems analysis, project management, the provision of information systems services, social networking in organisations, and mobile business and connectivity. You can choose to major in Business Analysis, or Data Analytics.  Professional accreditation: This degree is professionally accredited by the Australian Computer Society.  Career opportunities: Systems analyst, systems architect, business IT manager.	Prerequisites: Un a minimum study (or equivalent) or :	score of 2	5 in En	
Bachelor of Business Information Systems/Bachelor of Business	4 yrs FT/8 yrs PT	Н	60^	Vor
Combine specialist studies in business information systems (IS) with a business degree. Gain the skills and knowledge to pursue a generalist or specialist career using information systems and information and communication technology to analyse business problems and develop creative and innovative solutions.  Professional accreditation: See Bachelor of Business (page 46) and Bachelor of Business Information Systems.  Career opportunities: Business IT manager, financial adviser, economist, marketing researcher, business analyst, information architect, manager, IT consultant, systems analyst and tester.	Prerequisites: Ur a minimum study (or equivalent) or :	score of 2	5 in En	_
Business systems				
Bachelor of Information and Communication Technology with a major in Business Systems	3 yrs FT/6 yrs PT	Н	60^	Vor
Learn about database technologies and how to educate management on suitable technologies and their deployment. This degree is professionally accredited by the Australian Computer Society.  Career opportunities: Business analyst, database analyst, information systems coordinator, management information systems analyst, project manager.	Prerequisites: Ur a minimum study (or equivalent) or	score of 2	5 in En	_
Computer science				
Bachelor of Computer Science (Professional)	4 yrs FT/8 yrs PT	Н	80^	
Bachelor of Computer Science	3 yrs FT/6 yrs PT	Н	70^	Vor
Learn about software development, the internet of things, networking and cybersecurity while gaining a sound understanding of the traditional aspects of computer science. Explore contemporary approaches to application development involving mobile devices and web-based systems, with an emphasis on the	Prerequisites: Un a minimum study: (or equivalent) or 3	score of 2 30 in Engli	5 in En	-

## Computer science (continued)

COURSE

#### Bachelor of Engineering (Honours)/Bachelor of Computer Science 5 yrs FT/10 yrs PT H 75^ V or D Combine technical expertise in an engineering field of your choice with skills in software development Prerequisites: Units 3 and 4: or online security. Complete core units in your first year to assist in selecting from a wide range of a minimum study score of 25 in English engineering majors. Undertake at least 12 weeks of relevant professional experience. (or equivalent) or 30 in English (EAL); **Professional accreditation:** See Bachelor of Computer Science and Bachelor of Engineering (Honours) (page 68). and Units 3 and 4: a minimum study score of 20 in Mathematical Methods Career opportunities: Telecommunications engineer, electrical and electronic engineer, software developer, or Specialist Mathematics. design engineer, cybersecurity consultant, systems analyst, network administrator. Bachelor of Games and Interactivity/Bachelor of Computer Science 4 yrs FT/8 yrs PT H 70<sup>^</sup> V or D Gain a broad range of multimedia production skills, including web, animation and digital video/audio, Prerequisites: Units 3 and 4: a minimum study score of 25 in English combined with extensive skills in software development to create games and interactive applications. (or equivalent) or 30 in English (EAL); **Professional accreditation:** See Bachelor of Computer Science. and Units 1 and 2: satisfactory Career opportunities: Video games developer, computer programmer, internet systems developer, completion of two units (any study multimedia developer, systems analyst, animator. combination) of any Mathematics

# **Bachelor of Laws/Bachelor of Computer Science**5 yrs FT/10 yrs PT H 85^ V or D Learn about commercial law with an emphasis on intellectual property law. Explore trademarks, patents and designs, copyright, the prohibition of misleading or deceptive conduct and competition law. Work with complex a minimum study score of 25 in English

software and networks to create secure solutions. Choose a computer science major: cybersecurity, data science, games development, internet of things, network design, software design or software development.

Professional accreditation: See Bachelor of Computer Science and Bachelor of Laws (page 99).

Career opportunities: Solicitor, lawyer, legal adviser, software developer, games developer, cybersecurity

consultant, data analyst, digital developer, IT consultant, network designer.

Bachelor of Computer Science (Professional) with a major in Cybersecurity

d Prerequisites: Units 3 and 4: blex a minimum study score of 25 in Englis (or equivalent) or 30 in English (EAL); and Units 1 and 2: satisfactory completion in two units (any study combination) of any Mathematics (excluding Foundation Maths).

4 yrs FT/8 yrs PT H

(excluding Foundation Maths).

(L)

## Cybersecurity

Bachelor of Computer Science with a major in Cybersecurity	3 yrs FT/6 yrs F	ТН	70^	V or D	
Learn the fundamentals of encryption systems, access control, the internet and get into the minds of malicious hackers and cyber-criminals. Learn their tricks and how to defeat them.	Prerequisites: a minimum stu (or equivalent)	dy score	of 25 in E	0	
<b>Professional accreditation:</b> This degree is professionally accredited by the Australian Computer Society.			<b>1∟)</b> ,		
<b>Professional degree:</b> This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.	and Units 1 and 2: satisfactory completion of two units (any stu combination) of any Mathemati				
<b>Career opportunities:</b> Software developer, cybersecurity consultant, digital forensics expert, information system security officer, data analyst, digital developer, IT consultant, cybersecurity system designer.	(excluding Four	,			
Certificate IV in Cyber Security (22334VIC)	1 yr FT	Н		V or D	
Gain the skills and knowledge to secure networks, computer systems and support users, either in an independent cybersecurity support role or as part of a team	Prerequisites: Satisfactory completion of Year 10 or equivalent			letion	

## Data analytics

Bachelor of Business Information Systems with a major in Data Analytics	3 yrs FT/6 yrs PT H	1 60	)^ V or [	
Learn how business intelligence and business analytics are used to solve 'wicked problems' and provide business insight. Discover how business agility can be improved through an understanding of big data.	<b>Prerequisites:</b> Units 3 and 4: a minimum study score of 25 in Engl			
Career opportunities: Business analyst, data analyst, business intelligence analyst, information management specialist, business solutions consultant.	(or equivalent) or 30 in English (EAL).			

INFORMATION TECHNOLOGY 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY INFORMATION TECHNOLOGY

and Units 1 and 2: satisfactory completion in two units (any study

(excluding Foundation Maths).

combination) of any Mathematics

one-on-one time with teachers. Complete units in database analysis and design, business information

systems, programming in C and C++, and creating web applications.

COURSE	<u>C</u>	0	$\Diamond$	$\boxtimes$
Data science				
Bachelor of Computer Science (Professional) with a major in Data Science	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Computer Science with a major in Data Science	3 yrs FT/6 yrs PT	Н	70^	V or D
Learn the statistical methods and tools needed to manage big data sets and the visualisation techniques needed to represent and understand that data for effective decision making.  Professional accreditation: This degree is professionally accredited by the Australian Computer Society.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Business analyst, data scientist, data solutions manager, information systems analyst, market intelligence analyst.	Prerequisites: Un a minimum study: (or equivalent) or 3 and Units 1 and 2: completion of two combination) of ar (excluding Founda	score of 30 in Eng satisfac units (any Mathe	25 in En glish (EA tory ny study ematics	_);
Games development				
Bachelor of Computer Science (Professional) with a major in Games Development	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Computer Science with a major in Games Development	3 yrs FT/6 yrs PT	Н	70^	V or D
Focus on the design and programming of computer games and other interactive software. Gain skills in software development using an object-oriented approach and specialist areas in games design and development. Learn about the creative and design aspects of multimedia and internet technologies, particularly as applied to games development.  Professional accreditation: This degree is professionally accredited by the Australian Computer Society.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.	Prerequisites: Un a minimum study: (or equivalent) or 3 and Units 1 and 2: completion of two combination) of ar (excluding Founda	score of 30 in Eng satisfac units (an ny Mathe	25 in En glish (EA tory ny study ematics	L);
Career opportunities: Software developer, video game creator, computer programmer, data solutions manager				
Bachelor of Games and Interactivity/Bachelor of Computer Science	4 yrs FT/8 yrs PT	Н	70^	V or D
Gain a broad range of multimedia production skills, including web, animation and digital video/audio, combined with the extensive skills in software development required to develop games and interactive applications. Learn how to apply theoretical and practical knowledge to the development of 2D and 3D games. Gain multimedia and information technology skills to prepare for a career in the games industry as well as in the broader information and communications technology sector.  Professional accreditation: See Bachelor of Computer Science.  Career opportunities: Video games developer, computer programmer, internet systems developer, multimedia developer, systems analyst, animator.	Prerequisites: Un a minimum study: (or equivalent) or 3 and Units 1 and 2: completion of two combination) of ar (excluding Founda	score of 30 in Eng satisfac units (an ny Mathe	25 in En glish (EA tory ny study ematics	_);
Information technology				
Bachelor of Business Information Technology (Professional)	3 yrs FT	Н	75#	V or D
This prestigious degree is developed and delivered in partnership with industry to produce the business leaders of tomorrow. As a student, you will receive an industry-funded scholarship worth approximately \$40,000* and spend 40 weeks gaining valuable ICT workplace industry experience. Develop technical skills in databases and programming, and explore business analysis and problem-solving, business process management, project management, the management of information systems (IS) in organisations, the provision of IS services, social networking in organisations, and mobile business and connectivity.  Professional accreditation: This degree is professionally accredited by the Australian Computer Society.  Career opportunities: Project manager, business analyst, information architect, business requirements analyst. *Conditions apply.	Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in any Mathematics.  Short-listed applicants must attend an interview.			L); dy
Bachelor of Information and Communication Technology	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Information and Communication Technology	3 yrs FT/6 yrs PT	0	60^	D
Explore computer and network configurations, web and application programming, and database design and maintenance. Specialise in a particular aspect of information and communication technology.  This degree is professionally accredited by the Australian Computer Society.  Career opportunities: Project manager, multimedia developer, systems architect, business requirements analyst, computer programmer, application integration specialist.	Prerequisites: Un a minimum study (or equivalent) or 3	score of	25 in En	_
Diploma of Information Technology (UniLink)	8 mths FT 16 mths PT	Н		V or D
This higher education diploma is an alternative pathway to the second year of a bachelor degree. The units are similar to those in the first year of a bachelor degree, but classes are smaller and students have more one-on-one time with teachers. Complete units in database analysis and design, business information	Prerequisites: Un a minimum study:	score of	20 in En	

© Duration
FT Full-time
C Croydon
O Online
PT Part-time
H Hawthorn
C EV External venue

C Entry ATAR
A Guaranteed entry
For more information about ATARs, please refer to page 23.

C Provided Provided

## Information technology (continued)

Associate Degree of Applied Technologies

Digitalisation and Industry 4.0 demands fresh new skills and knowledge which can be transferred to the workforce of the future. This course will equip you with essential professional and technical skills in one of three specialisations: advanced manufacturing, building information modelling or cloud technologies. Engage in project-based learning using real construction projects with opportunities to collaborate and network with industry partners.

Career opportunities: Service technician, engineering technician, site installation technician.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study score of 20 in any Mathematics.

2 yrs FT/4 yrs PT H RC V or D

## **Internet of Things**

COURSE

Bachelor of Computer Science (Professional) with a major in Internet of Things	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Computer Science with a major in Internet of Things	3 yrs FT/6 yrs PT	Н	70^	V or D

of Things (IoT) platforms, devices and software. Learn to solve problems by analysing data from internet-connected devices. **Professional accreditation:** This degree is professionally accredited by the Australian Computer Society.

Gain the core programming skills and knowledge needed to develop a variety of open-source Internet

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Mobile application developer, full-stack software developer, solution architect,

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 1 and 2: satisfactory completion in two units (any study combination) of any Mathematics (excluding Foundation Maths).

## **Networks**

consultant, data scientist

Bachelor of Computer Science (Professional) with a major in Network Design	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Computer Science with a major in Network Design	3 yrs FT/6 yrs PT	Н	70^	V or D

Learn how to secure information and communication systems and become competent in computer network technologies and security. Study programming, internet technologies, systems analysis and design, database technologies and software development, as well as advanced topics in computer networks and security.

Professional accreditation: This degree is professionally accredited by the Australian Computer Society.

Prerequisites: Units 3 and 4: a minimum study score of 25 is (or equivalent) or 30 in English and Units 1 and 2: satisfactory.

**Professional degree:** This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Network technician, telecommunication network designer, telecommunication network developer, network architect, software developer, data analyst, IT consultant.

a minimum study score of 25 in English (or equivalent) or 30 in English (EAL); and Units 1 and 2: satisfactory completion of two units (any study combination) of any Mathematics (excluding Foundation Maths).

Bachelor of Information and Communication Technology with a major in Network Technology3 yrs FT/6 yrs PTH60^V or DBachelor of Information and Communication Technology with a major in Network Technology3 yrs FT/6 yrs PTO60^D

Specialise in the networking aspect of information and communication technology infrastructure. Gain four Cisco certifications. This degree is professionally accredited by the Australian Computer Society. 

Career opportunities: Network technician, telecommunication network designer, telecommunication network developer, network architect, software developer, data analyst, IT consultant.

a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

Prerequisites: Units 3 and 4:

1 yr FT

1 yr FT

## Diploma of Information Technology Networking (ICT50418)

Gain the skills and knowledge needed to install and manage complex networks either as an independent information and communication technology specialist or as part of a team. Learn how to install and administer Linux and Microsoft operating systems, and network security. You can choose to specialise in cloud computing or in network design.

Career opportunities: Customer support, database support, network support technician, computer support

**Prerequisites:** Successful completion of Certificate IV in Information Technology Networking or demonstrated experience in network support.

V or D

technician, user support technician.

Certificate IV in Information Technology Networking (ICT40418)

Study networking, Linux administration, Windows servers, network security, the Internet of Things and client support. Gain the skills and knowledge needed to install and manage small-scale networks, either as an independent network support technician or as part of a team.

 $\textbf{Career opportunities:} \ \textbf{Customer support, database support, network support technician, computer support technician, user support technician.}$ 

**Prerequisites:** Entry into this program is based on an applicant's study and/or relevant work history. Some additional criteria may also apply.

92 INFORMATION TECHNOLOGY 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY INFORMATION TECHNOLOGY

(or equivalent) or 25 in English (EAL).

COURSE	<u>(L)</u>	0	$\Diamond$	M
Software				
Bachelor of Computer Science (Professional) with a major in Software Design	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Computer Science with a major in Software Design	3 yrs FT/6 yrs PT	Н	70^	V or D
Learn the algorithms that drive big data, facilitate green computing and cybersecurity, and underpin the next generation of computer systems.  Professional accreditation: This degree is professionally accredited by the Australian Computer Society.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Software designer, systems developer, financial analyst, software modeller, project and technology manager.	Prerequisites: Un study score of 25 i equivalent) or 30 i Units 1 and 2: sati two units (any study Mathematics (exclu	n Englis n Englis sfactory dy comb	sh (or sh (EAL); a y complet pination) (	and tion of of any
Bachelor of Computer Science (Professional) with a major in Software Development	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Computer Science with a major in Software Development	3 yrs FT/6 yrs PT	Н	70^	V or D
Learn how to architect big systems, write phone and tablet apps and produce software that is better than industry standard. Then scale your applications up to the cloud for hacker-proof, robust and reliable software applications.  Professional accreditation: This degree is professionally accredited by the Australian Computer Society.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Software developer, games developer, cybersecurity consultant, data analyst, digital developer, IT consultant, network designer.	Prerequisites: Un study score of 25 i equivalent) or 30 i Units 1 and 2: sati two units (any study Mathematics (exclu	n Englis n Englis sfactory dy comb	sh (or sh (EAL); a y complet pination) (	and tion of of any
Bachelor of Engineering (Honours) (Professional) with a major in Software	5 yrs FT/10 yrs PT	Н	85^	V
Bachelor of Engineering (Honours) with a major in Software	4 yrs FT/8 yrs PT	Н	75^	V or D
Learn advanced software engineering with an emphasis on teamwork, problem solving and practical software engineering skills, including quality assurance, project management and industry-standard development techniques and tools. Undertake at least 12 weeks of professional experience.  Professional accreditation: Professionally accredited by Engineers Australia.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Software engineer, software systems developer, software modeller, project and technology manager.	Prerequisites: Un study score of 25 i equivalent) or 30 i Units 3 and 4: a m of 20 in Mathemat Specialist Mathem	n Englis n Englis inimum ical Met	sh (or h (EAL); a study sc	and
Bachelor of Information and Communication Technology with a major in Software Technology	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Information and Communication Technology with a major in Software Technology	3 yrs FT/6 yrs PT	0	60^	D
Learn how to enhance and maintain existing applications and assist in the choice of software for the needs of an organisation.  Professional accreditation: This degree is professionally accredited by the Australian Computer Society.  Career opportunities: Systems architect, business requirements analyst, technical writer, application integration specialist, software developer.	Prerequisites: Un study score of 25 i equivalent) or 30 i	n Englis	sh (or	nimum
Diploma of Software Development (ICT50718)	1 yr FT	Н		V or D
Gain high-level technical skills and knowledge, and learn how to develop mobile, web, desktop and cloud applications. Use up-to-date practices and current programming languages, including C#, Java, JavaScript, PHP, databases and project management  Career opportunities: Application developer, user interface analyst, data mining specialist, support programmer, web application developer.	<b>Prerequisites:</b> Su Certificate IV in Inf (ICT40115), or equ	ormatio		
Certificate IV in Information Technology (ICT40118)	1 yr FT	Н		V or D
Learn a range of programming languages (C#, Java, JavaScript and PHP) and develop skills in programming frameworks, version control tools and project collaboration tools. Gains the skills to develop mobile, desktop and cloud applications.  Career opportunities: Computer programmer, database administrator, IT support professional.	Prerequisites: En based on an appli relevant work histo criteria may also a	try into cant's st ory. Son	tudy and	gram is /or

# COURSE

# Bachelor of Information and Communication Technology with a major in Systems Analysis 2 yrs FT/6 yr: Learn how to redesign business processes and describe the software and web applications that assist in creating more efficient working environments. Prerequisite study score of the software and web applications that assist in creating more efficient working environments.

**Professional accreditation:** This degree is professionally accredited by the Australian Computer Society. **Career opportunities:** Quality assurance analyst, business requirements analyst, user interface analyst, business analyst, database analyst.

## Bachelor of Information and Communication Technology with a major in Systems Management

Gain the skills to provide for the infrastructure and technology needs of a small organisation; learn how to lead teams that look after the IT needs in a larger organisation and assist management in technology-related decision making.

**Professional accreditation:** This degree is professionally accredited by the Australian Computer Society. **Career opportunities:** Project manager, multimedia developer, systems architect, data mining specialist, help desk manager, business analyst.

₩

(L)

## 3 yrs FT/6 yrs PT H 60^ V or D

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

## 3 yrs FT/6 yrs PT H 60° V or D

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

## Website design and development

**Systems** 

## Diploma of Information Technology (ICT50118) - Website Design and Development

Learn the skills and knowledge needed to work in a range of front-end design and development roles. Develop skills in web design that focus on user experience (UX) and user interface (UI) design, plus, gain experience in web development with an emphasis on creating dynamic database-driven content.

Career opportunities: Web developer, web animator, project manager.

**Prerequisites:** Satisfactory completion of Year 12 or equivalent or relevant work experience.



INFORMATION TECHNOLOGY 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY INFORMATION TECHNOLOGY

# **LAW**

Open your world to the rigorous and intellectually challenging legal profession with our law courses.

You can integrate a Graduate Diploma in Legal Practice from the Leo Cussen Centre for Law with your bachelor degree. This shaves months off your study and means you qualify for admission to legal practice on the day you graduate – we're the only university in Victoria to offer this.

To futureproof your career, we emphasise innovation, technology and intellectual property in our courses. Want to really stand out from the crowd? Consider our range of double degrees.

## **Professional recognition**

The Bachelor of Laws satisfies the academic requirements to qualify for admission to practice as a lawyer in the Victorian and Australian Federal legal systems as set by the Victorian Legal Admissions Board. The graduate diploma offered with the Leo Cussen Centre for Law complies with the Practical Legal Training Component of qualifying to become an Australian lawyer.



TOP 150 GLOBALLY Swinburne Law School is one of the best law schools in the world

Academic Ranking of World Universities by Subject 2020

83%
SECURED
JOBS BEFORE
GRADUATING

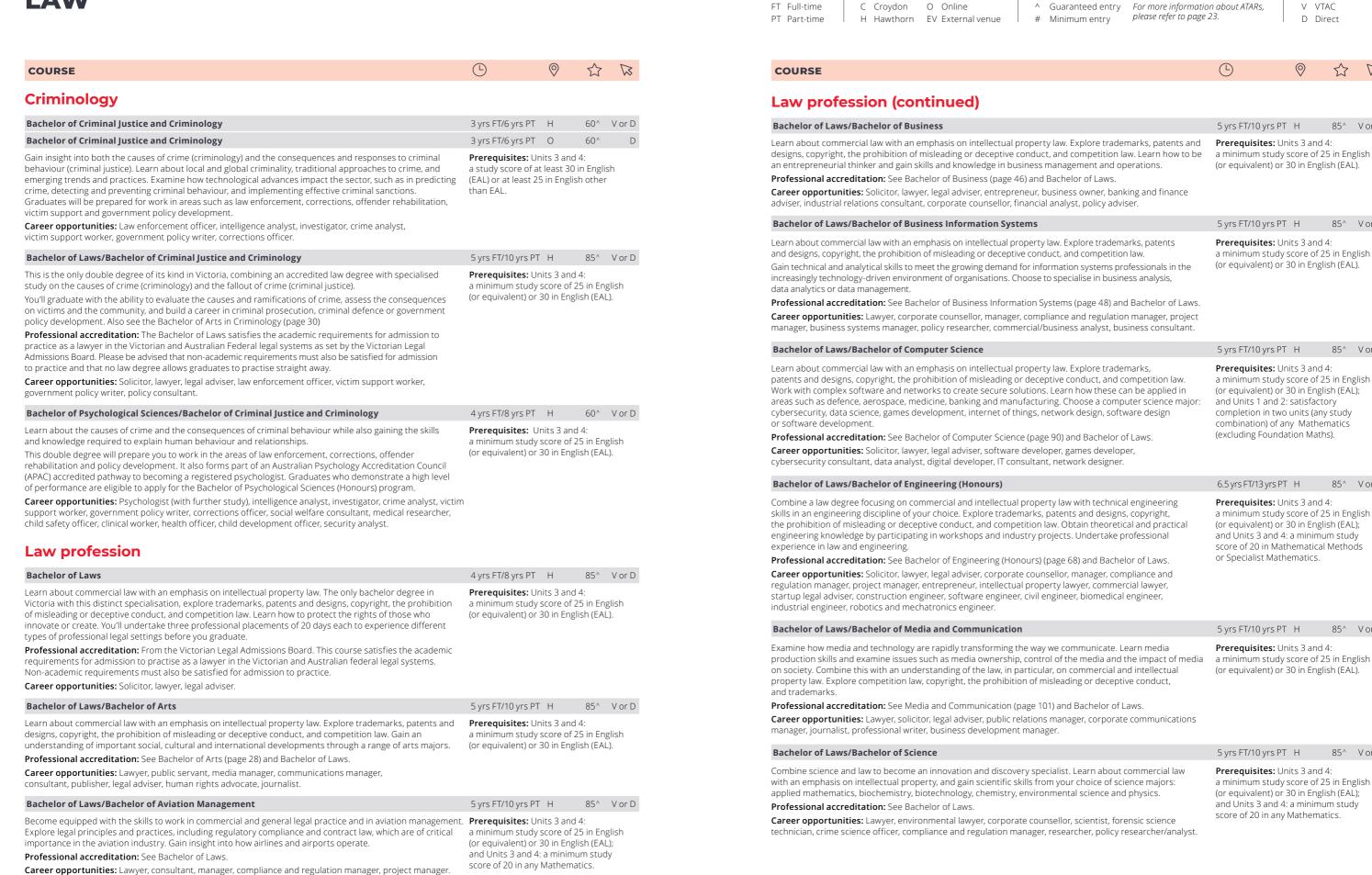
Employers include Mills Oakley, Minter Ellison and Prior Law





LAW 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY LAW 97





( Duration

Location W Wantirna

☆ Entry ATAR

RC Range of criteria

**⋈** Where to apply

V VTAC

D Direct

5 yrs FT/10 yrs PT H 85^ V or D

5 yrs FT/10 yrs PT H 85° V or D

5 yrs FT/10 yrs PT H 85^ V or D

6.5 yrs FT/13 yrs PT H 85^ V or D

a minimum study score of 25 in English

and Units 3 and 4: a minimum study

score of 20 in Mathematical Methods

85^ V or D

a minimum study score of 25 in English

(or equivalent) or 30 in English (EAL);

completion in two units (any study

combination) of any Mathematics

a minimum study score of 25 in English

(or equivalent) or 30 in English (EAL).

(or equivalent) or 30 in English (EAL).

Prerequisites: Units 3 and 4:

Prerequisites: Units 3 and 4:

and Units 1 and 2: satisfactory

(excluding Foundation Maths).

Prerequisites: Units 3 and 4:

or Specialist Mathematics.

5 yrs FT/10 yrs PT H

Prerequisites: Units 3 and 4:

Prerequisites: Units 3 and 4:

(or equivalent) or 30 in English (EAL).

5 yrs FT/10 yrs PT H 85^ V or D

a minimum study score of 25 in English

(or equivalent) or 30 in English (EAL):

and Units 3 and 4: a minimum study

score of 20 in any Mathematics.

98 **LAW** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY LAW

# **LAW**

## **Justice**

## **Diploma of Justice (22320VIC)**1 yr FT/2 yrs PT O

Learn the theory and practice behind operational functions within the Victorian criminal justice system. Covering areas such as foundation legal principles, management of adult offenders, how to work within family violence and culturally diverse circumstances, and more.

**Career opportunities:** Law clerk, clerks of court, customs officer, unsworn members of Victoria Police in areas of administration, statutory compliance officers, local/municipal law enforcement officers.

**Prerequisites:** Applicants will be required to complete a supervised literacy and numeracy assessment to demonstrate they meet the required level.

© Duration
FT Full-time
PT Part-time

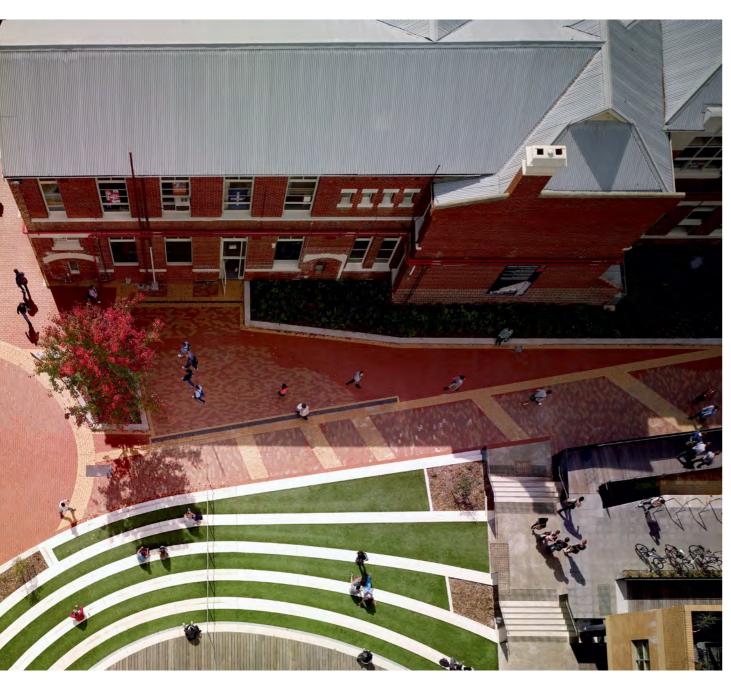
O Location
C Croydon
O Online
PT Part-time
H Hawthorn
EV External venue

☆ Entry ATAR
^ Guaranteed entry

R RC Range of criteria d entry For more information about ATARS, please refer to page 23. **Where to apply**∨ ∨TAC

D Direct

# Minimum entry please refer to page 23.



# **MEDIA AND COMMUNICATION**

The digital age has rapidly transformed the way we communicate, making it an exciting time to begin a media career.

Our media and communication courses will take you on an exploration of social media, news, advertising, and the evolution of media, examining the power of words and images and how they shape the way we think.

Combining theory with hands-on experience, you'll open doors to a career in advertising, journalism, art direction, digital media, production and more.

## **Professional recognition**

Our media and communication courses provide many opportunities to connect through leading industry organisations. Our advertising major is professionally accredited by the Media Federation of Australia.

Our public relations major is professionally accredited by the Public Relations Institute of Australia and graduates may be eligible for membership.

Graduates of the digital advertising technology major may be eligible for membership of the Australian Interactive Media Industry Association.

Graduates of the journalism major may be eligible to apply for membership of the Media, Entertainment and Arts Alliance.

Double degrees may provide additional opportunities for memberships.

## **COURSES AT A GLANCE**

**Unit types** ■ Core ■ Major ■ Elective

# Bachelor of Media and Communication

- Advertising
- · Cinema and Screen Studies
- Creative Writing and LiteratureDigital Advertising Technology
- Games and Interactivity
- Journalism
- Media Industries
- Professional Writing and Editing
- Public Relations
- Social Media

### Certificates and diplomas in

- Journalism
- Media and Communication
- · Professional Writing and Editing
- · Sports Media

# #1 IN VICTORIA

## Graduate starting salary

4 8 12

The median starting salary for our grads is equal highest in the state.

QILT: Graduate Outcomes Survey 2017-2019

AUSTRALIA'S 1ST ADOBE CREATIVE CAMPUS

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100 LAW SWINBURNE UNIVERSITY OF TECHNOLOGY MEDIA AND COMMUNICATION 19



# MEDIA AND COMMUNICATION

COURSE

## **Advertising**

4 yrs FT/8 yrs PT	Н	80^	V
3 yrs FT/6 yrs PT	Н	60^	V or D
3 yrs FT/6 yrs PT	0	60^	D
	3 yrs FT/6 yrs PT	4 yrs FT/8 yrs PT H 3 yrs FT/6 yrs PT H 3 yrs FT/6 yrs PT O	3 yrs FT/6 yrs PT H 60^

Gain vital knowledge and skills needed to succeed in the complex and creative world of advertising. Explore effective design and strategy, as well as advertising development, implementation and evaluation. Learn how to design advertisements that not only please clients but achieve the ultimate purpose of reaching the audience in the desired way.

(or equivalent) or 30 in English (EAL).

Prerequisites: Units 3 and 4:

a minimum study score of 25 in English

Professional accreditation: This major is professionally accredited by the Media Federation of Australia. Also see Arts and Humanities (page 27).

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Marketing and sales professional, public relations officer, advertising consultant, media planner, brand strategist.

## Cinema and screen studies

Bachelor of Media and Communication (Professional) with a major in Cinema and Screen Studies	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Media and Communication with a major in Cinema and Screen Studies	3 yrs FT/6 yrs PT	Н	60^	V or D

Explore moving-image traditions and theories. Develop screen-specific research and writing skills, and become prepared for roles in media organisations and across a range of creative industries. Also see Arts and Humanities (page 27).

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Broadcast presenter, film researcher, production coordinator, community arts worker, film distribution coordinator, film festival manager, entertainment journalist.

## Creative writing and literature

Bachelor of Media and Communication (Professional) with a major in Creative Writing and Literature	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Media and Communication with a major in Creative Writing and Literature	3 yrs FT/6 yrs PT	Н	60^	V or D

Gain an understanding of creative text and popular culture in literature. Develop models for your own writing and critiquing skills in literature, while exploring subjects such as self and society. Also see Arts and Humanities (page 27).

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Journalist, publisher, writer, editor, novelist, screenwriter, producer, advertising consultant.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

## Digital advertising technology

Bachelor of Media and Communication (Professional) with a major in Digital Advertising Technology	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Media and Communication with a major in Digital Advertising Technology	3 yrs FT/6 yrs PT	Н	60^	V or D

Develop highly sought-after skills in digital advertising and digital marketing. Co-designed with Adobe itself, this course provides experience in Adobe Experience Cloud - key software used in creative agencies, marketing teams and digital consultancies around the world. Become an expert in the rapidly growing areas of digital analytics, search marketing, social media marketing and video marketing. Also see Arts and Humanities (page 27).

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

**Professional degree:** This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Journalist, publisher, writer, editor, social media officer, digital advertising specialist, digital marketing executive, advertising account manager, marketing coordinator, digital campaign manager, digital content manager, search marketing specialist, web analytics expert.

Ouration	♥ Location	W Wantirna	$\Box$	Entry ATAR	RC Range of criteria	W.	Where to apply
FT Full-time	C Croydon	O Online	Λ	Guaranteed entry	For more information about ATARs,	V	VTAC
PT Part-time	H Hawthorn	EV External venue	#	Minimum entry	please refer to page 23.	D	Direct

MEDIA AND COMMUNICATION 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY MEDIA AND COMMUNICATION

# MEDIA AND COMMUNICATION

access to (and coaching in) the Adobe Creative Cloud.

advertising executive, business journalist.

Professional accreditation: See Bachelor of Business (page 46) and Bachelor of Media and Communication. Career opportunities: Entrepreneur, business manager, brand strategist, social media coordinator, digital content producer, marketing and sales professional, public relations specialist, communications adviser,

COURSE	<u>_</u>	0	$\Diamond$	$\boxtimes$
Games and interactivity				
Bachelor of Media and Communication (Professional) with a major in Games and Interactivity	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Media and Communication with a major in Games and Interactivity	3 yrs FT/6 yrs PT	Н	60^	V or D
Learn about the role of games in contemporary society and how games are developing as a cultural industry. Undertake a range of projects focusing on analog and digital games, and develop practical and creative research and communication skills in a games lab environment. Become equipped with the skills needed to work in the rapidly evolving games industry as well as the broader digital media sector. Also see Arts and Humanities (page 27) and Games and Animation (page 75).	Prerequisites: Un a minimum study s (or equivalent) or 3	score of 2	5 in Eng	
Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Games developer, media producer, multimedia developer, video games developer, professional gamer.  Journalism				
	4		004	\/
Bachelor of Media and Communication (Professional) with a major in Journalism	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Media and Communication with a major in Journalism	3 yrs FT/6 yrs PT		60^	V or D
Combine traditional journalistic skills with online publishing, multimedia production and the skills required for interacting with audiences, social networking and building online communities. Publish and broadcast work in online, television, radio and print outlets. Also see Arts and Humanities (page 27).	a minimum study s (or equivalent) or 3	score of 2	5 in Eng	_
<b>Professional degree:</b> This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.				
<b>Career opportunities:</b> Journalist, publisher, writer, editor, digital advertising specialist, television presenter, radio presenter, investigative reporter, social commentator, social media coordinator, digital content manager, radio producer.				
Diploma of Screen and Media (CUA51015) – Sports Media	1 yr FT	Н		D
Benefit from our unique partnership with Richmond Football Club and take a focused approach towards a career in the sports media industry. With access to an elite Melbourne sporting club, you will build the skills essential to developing high quality digital content with practical outcomes, and be well placed for employment in the sports industry. This course includes an internship.	<b>Prerequisites:</b> Sat of Victorian Year 1. or relevant work e.	2 or equiv	alent,	etion
<b>Career opportunities:</b> Sports journalist, social media coordinator, video/podcast producer, project manager, campaign manager, media manager.				
Media and communication				
Bachelor of Media and Communication (Professional)	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Media and Communication	3 yrs FT/6 yrs PT	Н	60^	V or D
Prepare for a career in the media, communications and multimedia industries with this broad and practical course. Learn about how the media is evolving through an examination of issues such as ownership, control of the media and the impact of new media technologies on society. Develop professional communication skills.	Prerequisites: Un a minimum study s (or equivalent) or 3	score of 2	5 in Eng	
<b>Professional accreditation:</b> The advertising major is professionally accredited by the Media Federation of Australia. The public relations major is professionally accredited by the Public Relations Institute of Australia				
<b>Professional degree:</b> This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.				
<b>Career opportunities:</b> Marketing and sales professional, media officer, public relations officer, advertising consultant, journalist, writer.				
Bachelor of Media and Communication/Bachelor of Business	4 yrs FT/8 yrs PT	Н	60^	V or D
This double degree will prepare you for a dynamic career where professional communication, media content creation and business intersect. You'll select a business major (see page 46) and a media and communication major (see page 99), and develop research, problem-solving and critical thinking skills. You'll also enjoy free	Prerequisites: Un a minimum study s (or equivalent) or 3	score of 2	5 in Eng	

(L) Duration Location W Wantirna ☆ Entry ATAR RC Range of criteria **⋈** Where to apply ^ Guaranteed entry For more information about ATARs, FT Full-time C Croydon O Online V VTAC please refer to page 23. PT Part-time H Hawthorn EV External venue # Minimum entry D Direct COURSE

## Media and communication (continued)

Bachelor of Design/Bachelor of Media and Communication

Gain valuable skills in design principles, and develop your technical aptitude and production abilities using the **Prerequisites:** Units 3 and 4: latest technologies. Learn to apply these skills to improve communication outcomes for organisations and individuals. Choose from a wide range of media and communication majors along with design majors including (or equivalent) or 30 in English (EAL); branded environments, communication design, digital media design, photomedia, and UX interaction design. **Professional accreditation:** See Bachelor of Media and Communication.

Career opportunities: Communications designer, exhibition designer, graphic designer, multimedia developer, advertising consultant, marketing and sales professional, public relations officer, media planner, brand strategist, digital content producer, creative agency account manager, UI/UX designer.

a minimum study score of 25 in English and Units 3 and 4: a minimum study score of 20 in one of Art, Interactive Digital Media C, Media, Product Design and Technology, Studio Arts or Visual Communication Design

4 yrs FT/8 yrs PT H 70° V or D

4 yrs FT/8 yrs Pt H 60° V or D

5 yrs FT/10 yrs PT H 85^ V or D

V or D

### Bachelor of Health Science/Bachelor of Media and Communication

Explore Australian and international health challenges. Examine the physical, psychological and social aspects Prerequisites: Units 3 and 4: of health in a variety of settings. Gain knowledge about how the media is evolving through an examination of issues such as ownership, control of the media and the impact of new media technologies on society.

Professional accreditation: See Bachelor of Health Science (page 83) and Bachelor of Media and Communication. Career opportunities: Medical researcher, psychologist (with further study), data scientist, biomedical scientist, health communicator, public relations officer, advertising consultant, journalist, journal editor.

a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

### Bachelor of Laws/Bachelor of Media and Communication

manager, journalist, professional writer, business development manager.

Examine how media and technology are rapidly transforming the way we communicate. Learn media production **Prerequisites:** Units 3 and 4: skills and examine issues such as media ownership, control of the media and the impact of media on society. Combine this with an understanding of the law, in particular, on commercial and intellectual property law. Explore competition law, copyright, the prohibition of misleading or deceptive conduct, and trademarks.

Professional accreditation: See Bachelor of Media and Communication and Bachelor of Laws (page 99). Career opportunities: Lawyer, solicitor, legal adviser, public relations manager, corporate communications

a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

## Diploma of Arts and Communication (UniLink)

This higher education diploma provides an alternative pathway into the second year of a bachelor degree. The units are similar to those offered in the first year of a bachelor degree, but classes are smaller and students have more one-on-one time with teachers. Complete units in communication skills, sociology, marketing and critical thinking.

Prerequisites: Units 3 and 4: a minimum study score of 20 in English (or equivalent) or 25 in English (EAL).

8 mths FT

16 mths PT

## **Media industries**

Bachelor of Media and Communication (Professional) with a major in Media Industries 4 yrs FT/8 yrs PT H Bachelor of Media and Communication with a major in Media Industries 3 yrs FT/6 yrs PT H 60^ V or D

Develop the knowledge and skills needed to understand and prepare for roles in the media environment. Gain experience in making connections with industry. Also see Arts and Humanities (page 27).

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

**Prerequisites:** Units 3 and 4:

Career opportunities: Public relations officer, advertising consultant, journalist, communications coordinator, content developer, media policy developer, radio production coordinator, digital media account manager.

## Media studies

Bachelor of Media and Communication with a major in Media Studies 3 yrs FT/6 yrs PT O 60^

Learn about globalisation, media ethics and social media, and how to reach audiences effectively through both traditional and digital media. Be equipped with the skills to write for print, broadcast and digital media, create engaging cross-platform content, and produce digital media projects.

Career opportunities: Public relations officer, marketing officer, digital marketing specialist, communications coordinator, radio production coordinator, digital media account manager.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

MEDIA AND COMMUNICATION 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY MEDIA AND COMMUNICATION

## MEDIA AND COMMUNICATION

## COURSE

## Professional writing and editing

Bachelor of Media and Communication (Professional) with a major in Professional Writing and Editing	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Media and Communication with a major in Professional Writing and Editing	3 yrs FT/6 yrs PT	Н	60^	V or D

Gain an understanding of industry laws and regulations, as well as writing and editing skills for novels, non-fiction, creative fiction, scripts, screenwriting, advertising and the web.

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Journalist, publisher, writer, editor, communications officer, reporter,

public relations officer, novelist, screenwriter, copywriter.

## Diploma of Professional Writing and Editing (CUA50118)

Learn from award-winning writers and editors. Refine your skills and develop a portfolio of work, including persuasive copy, scripts, media writing, extended stories and novel writing. Gain an understanding of creative arts industry laws, regulations and practices, and learn about freelancing and project management.

Career opportunities: Journalist, publisher, writer, editor, public relations officer

## Certificate IV in Professional Writing and Editing (CUA40118)

Learn how to work effectively in the creative arts industry and develop your writing, editing and proofreading skills. Build a portfolio of work in fiction and non-fiction including short narratives, business and public relations documents and short scripts.

Career opportunities: Journalist, writer, editor, proofreader.

Prerequisites: Units 3 and 4:

a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

V or D Prerequisites: Certificate IV in Professional Writing and Editing or

equivalent, or industry experience.

Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent, and demonstrate a high level of language

Prerequisites: Units 3 and 4: a minimum study score of 25 in English

## **Public relations**

Bachelor of Media and Communication (Professional) with a major in Public Relations	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Media and Communication with a major in Public Relations	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Media and Communication with a major in Public Relations	3 yrs FT/6 yrs PT	0	60^	D

Study theories of influence, build your understanding of the media, and learn how to manage the public perception of an organisation. Develop skills in event management, writing, project management and issues communication to help companies build lasting relationships with the people most important to their success. (or equivalent) or 30 in English (EAL).

Professional accreditation: This degree is professionally accredited by the Public Relations Institute of Australia.

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Public relations officer, event manager, marketing manager, brand manager, project manager, advertising consultant, promotions officer, media relations coordinator, community manager.

### Social media

Bachelor of Media and Communication (Professional) with a major in Social Media	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Media and Communication with a major in Social Media	3 yrs FT/6 yrs PT	Н	60^	V or D

Gain a comprehensive understanding of social media platforms within social, cultural and industry contexts. Learn how to analyse new and emerging media technologies and drive their use and innovation across industry. Also see Arts and Humanities (page 27).

Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.

Career opportunities: Digital advertising specialist, social media officer, journalist, writer, editor, communications officer, content creator, social media producer, digital marketer.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

## Sports media

## Diploma of Screen and Media (CUA51015) - Sports Media

Develop the skills and knowledge to produce sports content for the screen and media industries. Gain skills in sports journalism, writing, commentary, media management, social media, photography, and audio and video production. You'll graduate with a portfolio of work to enhance your employment opportunities.

Career opportunities: Sports journalist, sports commentator, sports writer, sports researcher/programmer, sports public relations writer or a multimedia/digital content producer within sports marketing and media.

Prerequisites: Satisfactory completion of Victorian Year 12 or equivalent. or relevant work experience.

#### (L) Duration O Location W Wantirna ☆ Entry ATAR RC Range of criteria Where to apply FT Full-time C Croydon O Online For more information about ATARs, V VTAC Guaranteed entry PT Part-time H Hawthorn EV External venue please refer to page 23. # Minimum entry D Direct

# **NURSING**

The demands on nurses are changing. In our innovative nursing courses, including our Bachelor of Nursing, you'll learn how to approach problems, have patient-centred focus, be resilient and develop the skills to adapt to new technologies.

Learn in our cutting-edge facilities that mimic hospital settings, then put your skills into practice working alongside a registered nurse during your required placements.



### For learner engagement and student support

More students felt they were engaged with and supported in their learning than at any other university in Victoria Good Universities Guide 2021



**For Overall Experience** Good Universities Guide 2021

**HANDS-ON** 

In our Bachelor of Nursing you'll complete 800 hours of clinical placement



## **Cutting-edge facilities**

Our new state-of-the-art nursing facilities will ensure you're getting practical training and working with the latest technology and equipment right from the start of your study. Gain hands-on experience in our purpose-built nursing labs, and put what you've learnt to the test in our Simulation Ward. Here, you'll work with high-tech mannequins that simulate various physiological symptoms in a hospital-style environment, and watch others in action from the Observation Deck. It's all designed to prepare you to feel confident in administering patient care in a range of health settings on placement and beyond.

MEDIA AND COMMUNICATION 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY NURSING 107

# **NURSING**



## **Nursing**

## Bachelor of Nursing 3 yrs FT/6yrs PT H 65# V or D

Undertake hands-on laboratory work and training in our new and redeveloped state-of-the-art clinical laboratories. Complete clinical work placements in a range of health settings, including acute hospital, aged-care, day surgery or mental health environments in metropolitan or regional areas.

This degree has been accredited by the Australian Nursing and Midwifery Accreditation Council and is listed as an approved program of study on the Australian Health Practitioner Regulation Agency (APHRA) website.

Students are required to have a valid police check and Working With Children Check. All enrolled students must maintain a current Working With Children Check (from the appropriate State Authority) and a current police check throughout the duration of the course.

Evidence of a completed adult vaccination program is required before clinical placements are undertaken.

Career opportunities: Registered nurse.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL). Students are required to have a valid police check and working with children check. Evidence of a completed adult vaccination program is required before clinical placements are undertaken

## Diploma of Nursing (HLT54115)

Build the essential skills and knowledge required to work under the supervision of a registered nurse in a variety of healthcare settings. Learn to implement basic nursing care, assess clients' health and analyse health-related information. Also learn how to administer and monitor medication care for older clients, acute-care clients and people with mental health conditions.

Students are required to have a valid police check and Working With Children Check.

Career opportunities: Enrolled nurse.

Prerequisites: VCE Units 3 and 4, with a minimum study score of 20 for English, or 25 in EAL, and satisfactory score for Units 1 and 2 in Maths OR ACSF Exit Level 3 (working at Level 4), or above, in both Reading and Numeracy as determined at a supervised BKSB testing session conducted at Swinburne AND Demonstrated English language skills to the level specified by the Nursing and Midwifery Board of Australia. See course webpage for more.

W

V or D

## Certificate IV in Allied Health Assistance (Physiotherapy, Occupational Therapy) (HLT43015)

Learn how to develop and manage therapeutic programs to deliver holistic care to clients with rehabilitation needs. Gain the knowledge and skills needed to support allied health professional such as physiotherapists and occupational therapists.

Students are required to have a valid police check and Working With Children Check.

Career opportunities: Allied health assistant.

**Prerequisites:** Entry into this program is based on an applicant's study and/or relevant work history. Applicants must have a valid Working With Children Check,

W

valid Police Check.

6 mths FT

6 mths FT

6 mths FT

1.5 yrs FT

## Certificate III in Individual Support (Ageing) (CHC33015)

Learn how to provide physical and social support to individuals and within the aged care community. Grow your skills in interpersonal communication, relationship building, and caring for people with diverse needs. This course also includes a clinical work placement.

Students are required to have a valid police check and Working With Children Check.

 $\textbf{Career opportunities:} \ \textbf{Individual support worker in aged care, home, and community settings.}$ 

**Prerequisites:** Entry into this program is based on an applicant's study and/or relevant work history.

### Certificate III in Individual Support (Disability) (CHC33015)

This industry-designed qualification will give you the skills, knowledge and values to provide individual care to people with disabilities in residential, community, health care and NDIS settings. Enable people with disabilities to become more independent and get involved in community and recreational activities. Empower people to live rich and full lives.

Students are required to have a valid police check and Working With Children Check.

**Career opportunities:** Disability support worker, personal care assistant, residential care officer, accommodation support worker, or NDIS support worker.

Prerequisites: Entry into this program is based on an applicant's study and/or relevant work history. Applicants must have a valid Working With Children Check, valid Police Check, and demonstrate competency in literacy and numeracy.

## Paramedical science

## **Diploma of Paramedical Science (HLT51015)** 6 mths FT W

Become an invaluable member of the healthcare industry and work as an Ambulance Transport Attendant (ATA). Gain real industry experience with 160 hours of clinical placement through our industry partner Health Select. This course will also prepare you to work in pre-hospital and out-of-hospital care.

Career opportunities: Ambulance Transport Attendant (ATA), Patient Transport Officer (PTO) or an Ambulance Community Officer (ACO) with Ambulance Victoria (in rural areas).

**Prerequisites:** uccessful completion of the Certificate III in Non-Emergency Patient Transport (HLT31115).

(L) Duration O Location W Wantirna ☆ Entry ATAR RC Range of criteria **⋈** Where to apply FT Full-time O Online For more information about ATARs, V VTAC C Croydon Guaranteed entry please refer to page 23. PT Part-time H Hawthorn EV External venue D Direct # Minimum entry

Develop the foundational skills required to work directly with patients under the supervision of professional health staff in a highly functioning health system. Your understanding of how to assist and support these staff is critical to the care of patients and clients.

**Career opportunities:** Health services assistant, hospital orderly, personal care assistant, patient service assistant, ward assistant.

Prerequisites: Entry into this program is based on an applicant's study and/or relevant work history. Applicants without formal qualifications but with significant relevant work experience are welcome to apply. Applicants will need to demonstrate literacy and numeracy competencies.

### Certificate III in Non-Emergency Patient Transport (HLT31115)

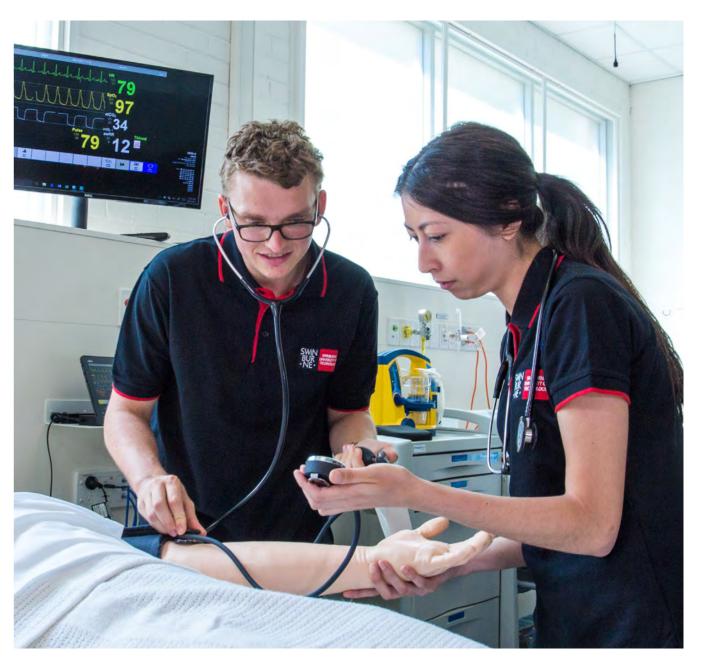
Gain the skills and knowledge to provide safe, non-emergency transport and care for patients suffering from an illness or disability. Develop the confidence to deliver first aid, drive non-emergency vehicles, provide appropriate patient assessment and follow procedures for safe patient transfers.

**Career opportunities:** Non-emergency patient transport worker for organisations such as Royal Flying Doctors, Ambulance Victoria, local hospitals and private companies outsourcing non-emergency patient transport.

**Prerequisites:** Entry into this program is based on an applicant's study and/or relevant work history. A full Victorian drivers licence. Learners and probationary licences will not be accepted.

W EV

6 mths FT



NURSING 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY NURSING 109

# **PSYCHOLOGY**

What makes us tick? Explore human nature with our psychology courses which combine theory with practical skills. You'll uncover the secrets to the human brain in order to understand what motivates action and behaviours.

You could go on to a career in forensic psychology, clinical practice, counselling, human resources, marketing, journalism, policy development and more.

## **Professional recognition**

The Bachelor of Psychology (Honours) and the three-year undergraduate major in psychology are professionally accredited by the Australian Psychology Accreditation Council.





THE LARGEST PSYCHOLOGY CLINIC IN AUSTRALIA

Swinburne Psychology Clinic

250,300 MORE JOBS Healthcare industry jobs will grow 14.9% over the next five years

Department of Jobs and Small Business-Industry Projections Science





For Samantha, taking high school biology and reading true crime sparked her interest in forensics. Passionate about both psychology and biology, particularly the workings of the human brain, Samantha was disappointed to think she could only choose one area for undergraduate study.

"Most universities offer forensic science or forensic psychology only at a postgraduate level. So, when I heard about this course at Swinburne, I was thrilled!"

After graduating from her 'perfect combo' course, Samantha plans to gain industry experience before returning to Swinburne to undertake the integrated PhD program.

## **SAMANTHA**

BACHELOR OF HEALTH SCIENCE (PSYCHOLOGY AND FORENSIC SCIENCE)

O PSYCHOLOGY 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY

## **PSYCHOLOGY**

COURSE 

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## **Psychological sciences**

Bachelor of Psychological Sciences	3 yrs FT/6 yrs PT	Н	60^	V or D
Bachelor of Psychological Sciences	3 yrs FT/6 yrs PT	0	60^	D

Gain the knowledge and skills to understand and explain human behaviour and relationships. Learn about abnormal psychology, cognition, developmental psychology, psychological assessment, personality, social psychology and statistics, as well as biology, chemistry and physiology.

**Professional accreditation:** The three-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council.

**Career opportunities:** Psychologist (with further study), social welfare consultant, medical researcher, child safety officer, clinical worker, health officer, child development officer.

## Bachelor of Psychological Sciences/Bachelor of Criminal Justice and Criminology

Learn about the causes of crime and the consequences of criminal behaviour while also gaining the skills and knowledge required to explain human behaviour and relationships.

This double degree will prepare you to work in the areas of law enforcement, corrections, offender rehabilitation and policy development. It also forms part of an Australian Psychology Accreditation Council (APAC) accredited pathway to becoming a registered psychologist. Graduates who demonstrate a high level of performance are eligible to apply for the Bachelor of Psychological Sciences (Honours) program.

**Career opportunities:** Psychologist (with further study), intelligence analyst, investigator, crime analyst, victim support worker, government policy writer, corrections officer, social welfare consultant, medical researcher, child safety officer, clinical worker, health officer, child development officer, security analyst.

## 4 yrs FT/8 yrs PT H 60^ V or D

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English

(or equivalent) or 30 in English (EAL).

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

## **Bachelor of Psychology (Honours)**

The course is designed to prepare you for postgraduate studies in specialist areas, such as counselling, clinical, organisational or sports psychology, or to pursue a career in research. Gain the knowledge and skills to understand and explain human behaviour and relationships. Learn about abnormal psychology, cognition, developmental psychology, psychological assessment, personality, social psychology and statistics, as well as biology, chemistry and physiology.

**Professional accreditation:** The four-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council.

Career opportunities: Psychologist (with further study), social welfare consultant, medical researcher, child safety officer, clinical worker, health officer, child development officer.

## 4 yrs FT /8 yrs PT H

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

85^ V or D

## Psychology and forensic science

Bachelor of Health Science (Professional) with a major in Psychology and Forensic Science	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Health Science with a major in Psychology and Forensic Science	3 yrs FT/6 yrs PT	Н	60^	V or D

Gain specialist knowledge about the application of psychology to aspects of the law, the justice system and forensic science, as well as statistical skills relevant to forensic issues. Complete research projects, specialist units in research design and project units related to forensic psychology.

**Professional accreditation:** The three-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council.

Professional placement: The Bachelor of Health Science (Professional) includes a 12-month work placement.

**Career opportunities:** Psychologist or forensic psychologist (with further study), behavioural therapist, medical researcher, counsellor, youth worker.

**Prerequisites:** Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).

 ⑤ Duration
 ⑥ Location
 W Wantirna
 ☆ Entry ATAR
 RC Range of criteria
 ☼ Where to apply

 FT Full-time
 C Croydon
 O Online
 ^ Guaranteed entry
 For more information about ATARs, please refer to page 23.
 V VTAC

 PT Part-time
 H Hawthorn
 EV External venue
 # Minimum entry
 please refer to page 23.
 D Direct

Psychology and psychophysiology

COURSE

Bachelor of Health Science (Professional) with a major in Psychology and Psychophysiology 4 yrs FT/8 yrs PT H 80° V

Bachelor of Health Science with a major in Psychology and Psychophysiology 3 yrs FT/6 yrs PT H 60° V or D

Gain a broad introduction to a range of relevant studies in psychology, including cognition, developmental psychology, social psychology, personality, design and measurement, psychological measurement and abnormal psychology. Learn about physiological processes relevant to the study of psychology and address neuroanatomy; neurophysiology; physiological responses to sleep, dreaming, memory and cognition; and brain disorders.

**Professional accreditation:** The three-year undergraduate major in psychology is professionally accredited by the Australian Psychology Accreditation Council.

**Professional placement:** The Bachelor of Health Science (Professional) includes a 12-month work placement. **Career opportunities:** Psychologist (with further study), psychophysiologist, scientist, technologist.

Prerequisites: Units 3 and 4: a minimum study score of 25 in English (or equivalent) or 30 in English (EAL).



2 PSYCHOLOGY 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY PSYCHOLOGY

# SCIENCE

Be in your element with our science courses. You'll focus on practical learning as well as research thanks to our state-of-the-art laboratories and extensive connections with national and international industries and researchers.

The scientific mindset can be applied to many fields, equipping you with the problem-solving skills required to make real change in a range of professions.

The big question is where will you take them?

## **Professional recognition**

Our science courses are recognised by leading industry organisations. The Australian Institute of Physics (AIP) has accredited the below courses and its related major and minor combinations:

- Bachelor of Science with a major in Physics and a Mathematics minor
- Any double degree with a major in Physics and a Mathematics minor

Graduates may be eligible for membership of a number of organisations relevant to their major area of study, including:

- AusBiotech
- Australian and New Zealand Industrial and Applied Mathematics
- Australian Mathematical Society
- Australian Society for Biochemistry and Molecular Biology (ASBMB)
- Australian Society for Microbiology (ASM)
- Australian Sustainable Built Environment Council (ASBEC)
- Environmental Health Australia
- Environmental Institute of Australia
- Genetics Society of AustralAsia (GSA)
- National Business Leaders Forum for Sustainable Development
- Professionals Australia
- Royal Australian Chemical Institute (RACI)
- Sustainability Practitioners Association (SPA

Double degrees may provide additional opportunities for membership of leading industry organisations.

# **COURSES AT A GLANCE**

Unit types ■ Core ■ Major ■ Elective

### **Bachelor of Science**

- Applied Mathematics
- Biochemistry
- Biotechnology
- Chemistry
- Environmental Science
- Physics

### Certificates and diplomas in

- Laboratory Technology

## MASS **APPEAL**

We're ranked in the top 400 worldwide for physics

8 8 8

## **GROUND-BREAKING RESEARCH**

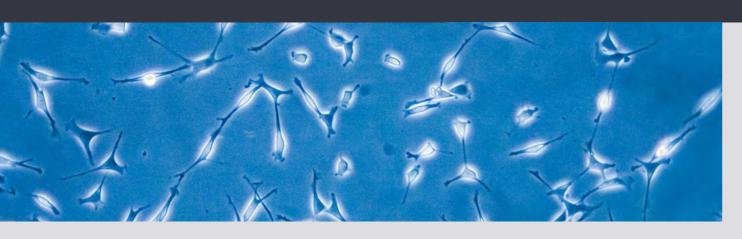
Swinburne leads OzGrav, the \$31.3 million ARC Centre of Excellence for Gravitational Wave Discovery

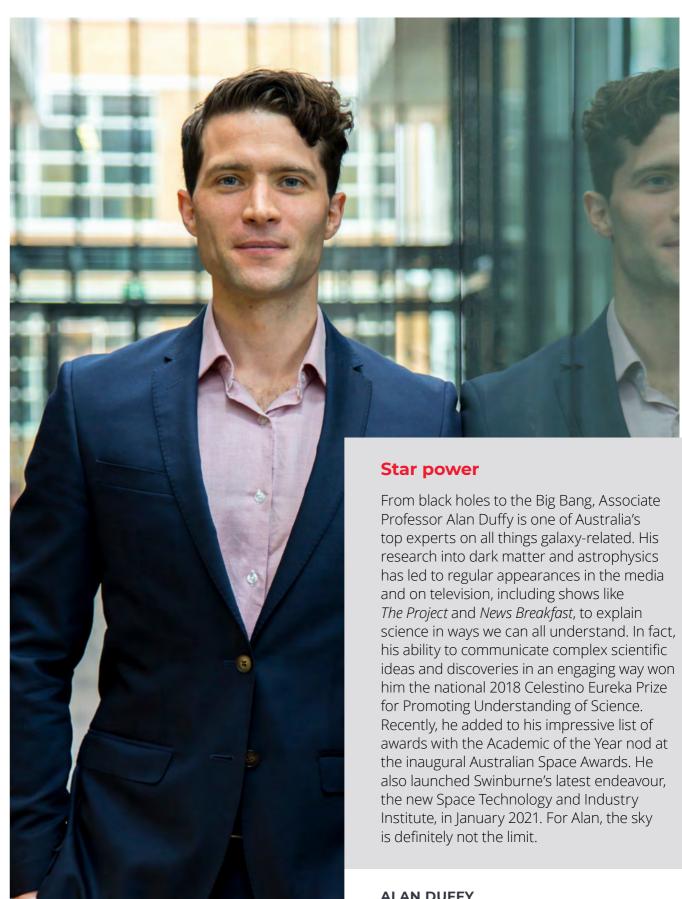
## **HOME** TO **OZSTAR**

The \$4 million supercomputer has a performance peak of 1.2 petaflops and is used by Swinburne-based OzGrav

# **NEW SPACE TECH**

It doesn't get much cooler than space tech and Australia's industry is booming! Ask us about **CO-MAJOR** our new co-major.





## **ALAN DUFFY**

ASTROPHYSICIST, LEAD SCIENTIST OF THE ROYAL INSTITUTION OF AUSTRALIA, SWINBURNE ASSOCIATE PROFESSOR AND RESEARCH FELLOW

SCIENCE 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY SCIENCE

# **SCIENCE**

plant and animal breeder, environmental analyst.

achelor of Science (Professional) with a major in Applied Mathematics	<u>(L)</u>	0	$\Box$	B
· · · · · · · · · · · · · · · · · · ·	used to describe phenomena and pilexity. Learn to model fundamental an innimum study score of 25 in English (cardinamental and pilexity. Learn to model fundamental and minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study score of 25 in English (cardinamental and pilexity. Units 3 and 4: a minimum study			
· · · · · · · · · · · · · · · · · · ·	4 vrs FT/8 vrs PT	Н	80^	
achelor of Science with a major in Applied Mathematics				Vor
prin a broad understanding of mathematical and numerical methods used to describe phenomena and predict behaviours. Explore how to make sense of big data and complexity. Learn to model fundamental ocesses in physical and life sciences, social sciences, consumer behaviour and finance.	a minimum study s (or equivalent) or 3	score of 3 30 in Eng	25 in En lish (EAI	L);
<b>ofessional degree:</b> This degree extends the standard degree to include a professional placement -major comprising a 12-month work placement.			study sc	ore
areer opportunities: Data analyst, quantitative analyst, mathematical modeller, scientific programmer, tuary, meteorologist and climate modeller.				
liochemistry				
achelor of Science (Professional) with a major in Biochemistry	4 yrs FT/8 yrs PT	Н	80^	
achelor of Science with a major in Biochemistry	3 yrs FT/6 yrs PT	Н	65^	V or
udy the molecules of life and the fundamental nature of matter in terms of molecules, reactions and operties. Examine how biochemical knowledge can be applied to a range of industries and medical vestigations, focusing on skills such as culturing microorganisms and investigating complex molecules, cluding enzymes and DNA.  **ofessional degree**: This degree extends the standard degree to include a professional placement industriance and investigating compressional placement industriance.  **Areer opportunities**: Medical researcher, clinical biochemist, diagnostic laboratory scientist,	a minimum study s (or equivalent) or 3 Units 3 and 4: a mi	score of 30 in Eng nimum s	25 in En lish (EAI	L);
sthology scientist, research assistant, research and development scientist.				
achelor of Science (Professional) with a major in Biotechnology	4 yrs FT/8 yrs PT	Н	80^	
achelor of Science with a major in Biotechnology	3 yrs FT/6 yrs PT	Н	65^	Vor
amine the fundamental sciences that underpin biotechnology – chemistry, biochemistry, microbiology and statistics – while investigating the application of biotechnology to areas such as business, ethics and invironmental science.  ofessional degree: This degree extends the standard degree to include a professional placement – major comprising a 12-month work placement.  areer opportunities: Medical researcher, clinical biochemist, diagnostic laboratory scientist,	a minimum study s (or equivalent) or 3 Units 3 and 4: a mi	score of 30 in Eng nimum s	25 in En lish (EAI	Ĺ);
chemistry				
achelor of Science (Professional) with a major in Chemistry	4 yrs FT/8 yrs PT	Н	80^	
	3 yrs FT/6 yrs PT	Н	65^	Vor
achelor of Science with a major in Chemistry			25 in En	
	Units 3 and 4: a mi	30 in Eng nimum s		
carchelor of Science with a major in Chemistry  carn far-reaching applications of chemistry, including forensic science, polymer formation, water analysis, e creation of new materials, agricultural chemistry, environmental science and analytical chemistry.  cofessional degree: This degree extends the standard degree to include a professional placement remajor comprising a 12-month work placement.  career opportunities: Medical researcher, clinical biochemist, diagnostic laboratory scientist,	Units 3 and 4: a mi	30 in Eng nimum s		
cachelor of Science with a major in Chemistry  parn far-reaching applications of chemistry, including forensic science, polymer formation, water analysis, a creation of new materials, agricultural chemistry, environmental science and analytical chemistry.  Tofessional degree: This degree extends the standard degree to include a professional placement remajor comprising a 12-month work placement.  Therefore opportunities: Medical researcher, clinical biochemist, diagnostic laboratory scientist, and/beverage production technician, pharmaceutical scientist.  Invironmental science	Units 3 and 4: a mi 20 in any Mathema	30 in Eng inimum s atics.	study sc	ore of
carn far-reaching applications of chemistry, including forensic science, polymer formation, water analysis, e creation of new materials, agricultural chemistry, environmental science and analytical chemistry.  cofessional degree: This degree extends the standard degree to include a professional placement remajor comprising a 12-month work placement.  coreer opportunities: Medical researcher, clinical biochemist, diagnostic laboratory scientist, and/beverage production technician, pharmaceutical scientist.	Units 3 and 4: a mi 20 in any Mathema 4 yrs FT/8 yrs PT	30 in Eng nimum s atics.	study sc	ore of
carn far-reaching applications of chemistry, including forensic science, polymer formation, water analysis, e creation of new materials, agricultural chemistry, environmental science and analytical chemistry.  cofessional degree: This degree extends the standard degree to include a professional placement remajor comprising a 12-month work placement.  coreer opportunities: Medical researcher, clinical biochemist, diagnostic laboratory scientist, and/beverage production technician, pharmaceutical scientist.  convironmental science  achelor of Science (Professional) with a major in Environmental Science	Units 3 and 4: a mi 20 in any Mathema 4 yrs FT/8 yrs PT 3 yrs FT/6 yrs PT Prerequisites: Un a minimum study (or equivalent) or 3	B0 in Enginimum satics.  H H H Stits 3 and score of 80 in Enginimum satics.	80^ 65^ I 4: 25 in En ;lish (EAI	V or glish L);

PT Part-time		D Di	rect	
COURSE	<u>(L)</u>	0	$\Diamond$	B
Laboratory technology				
Diploma of Laboratory Technology (MSL50118)	1 yr FT/2 yrs PT	Н		V or D
Gain a scientific education with a strong emphasis on the development of practical laboratory skills for the biotechnology, forensic science and pathology testing industries.  Career opportunities: Forensic science officer, laboratory technician, research assistant.	Prerequisites: Sa of Certificate IV in (MSL40118) or for applicants must b workplace and hav to enrol.	Laborato workplac e working	ory Tech e trainir g in a rel	iniques ng; levant
Certificate IV in Laboratory Techniques (MSL40118)	1 yr FT/2 yrs PT	Н		V or D
Gain a scientific and technical education with a strong emphasis on the development of practical skills for the biosciences workplace. Become competent in meeting the technological and administrative demands of laboratory work.  Career opportunities: Laboratory technician, instrument operator.	Prerequisites: Sat of Year 11 or comp Laboratory Skills. A to demonstrate lite competencies.	letion of Applicants	Certifica s will nee	ete III in ed
Physics				
Bachelor of Science (Professional) with a major in Physics		Н	80^	V
Bachelor of Science with a major in Physics	3 yrs FT/6 yrs PT	Н	65^	V or D
Gain fundamental knowledge of classical and modern physics, astrophysics and the physics of nanoscience and technology, as well as hands-on experience in experimental physics. You can also undertake a co-major outside your major field of study such as space technology.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Astrophysicist, renewable energy specialist, statistician, financial analyst, meteorologist, climate modeller, physicist.  Science	Prerequisites: Un a minimum study: (or equivalent) or 3 Units 3 and 4: a m of 20 in any Mathe	score of 2 30 in Engl inimum s	25 in Eng Iish (EAL	Ĺ);
Bachelor of Science (Professional)	4 yrs FT/8 yrs PT	Н	80^	V
Bachelor of Science	3 yrs FT/6 yrs PT	Н	65 ^	V or D
Learn to solve problems with a scientific mindset and choose from majors including applied mathematics, physics, chemistry, biochemistry, biotechnology and environmental science. You can also undertake a co-major outside your major field of study such as space technology.  Gain the skills, knowledge and key insights required to work in a range of professional scientific environments. A distinctive feature of the course is the practical application of knowledge through project-based units of study.  Professional degree: This degree extends the standard degree to include a professional placement co-major comprising a 12-month work placement.  Career opportunities: Physicist, biologist, industrial chemist, food technologist, environmental scientist, laboratory technician, scientist.	Prerequisites: Un a minimum study: (or equivalent) or 3 Units 3 and 4: a m of 20 in any Mathe	score of 2 30 in Engl inimum s	25 in Eng Iish (EAL	L);
Bachelor of Arts/Bachelor of Science	4 yrs FT/8 yrs PT	Н	65^	V or D
Learn to solve problems with a scientific mindset while building your awareness of contemporary society, communication and culture. This degree will prepare you for a career with global opportunities.  Science majors include applied mathematics, physics, chemistry, biochemistry, biotechnology and environmental science. Arts majors include politics and international relations, sociology, languages, criminology, journalism, philosophy, media industries and more.  Professional accreditation: See Bachelor of Arts (page 28).  Career opportunities: Physicist, biologist, industrial chemist, food technologist, environmental scientist, laboratory technician, scientist, science journalist, political analyst, policy researcher and adviser, science communication specialist.	Prerequisites: Un a minimum study: (or equivalent) or 3 Units 3 and 4: a m of 20 in any Mathe	score of 2 30 in Engl inimum s	25 in Eng lish (EAL	Ĺ);
Bachelor of Engineering (Honours)/Bachelor of Science	5 yrs FT/10 yrs PT	Н	75^	V or D
Build your understanding of scientific principles and use this knowledge to design engineering solutions that help society. Undertake at least 12 weeks of relevant professional experience.  Professional accreditation: See Bachelor of Engineering (Honours) (page 68).  Career opportunities: Communications engineer, civil infrastructure engineer, biologist,	Prerequisites: Un a minimum study: (or equivalent) or 3 and Units 3 and 4: score of 20 in Matl	score of 2 30 in Eng a minimi	25 in Eng lish (EAL um stud	Ĺ); dy

☆ Entry ATAR

RC Range of criteria

^ Guaranteed entry For more information about ATARs,

V VTAC

score of 20 in Mathematical Methods

or Specialist Mathematics.

116 SCIENCE SWINBURNE UNIVERSITY OF TECHNOLOGY SCIENCE 117

Duration

FT Full-time

| © Location W Wantirna

**Career opportunities:** Communications engineer, civil infrastructure engineer, biologist, industrial chemist, food technologist, environmental scientist.

C Croydon O Online

# **SCIENCE**

## COURSE

## Science (continued)

#### **Bachelor of Laws/Bachelor of Science** 5 yrs FT/10 yrs PT H 85° V or D

Specialise in innovation and discovery by combining science with law. Learn about commercial law with an emphasis on intellectual property, and gain scientific skills from your choice of science major. Choose from: a minimum study score of 25 in English applied mathematics, biochemistry, biotechnology, chemistry, environmental science and physics.

Professional accreditation: See Bachelor of Laws (page 98).

Career opportunities: Lawyer, environmental lawyer, corporate counsellor, scientist, forensic science technician, crime science officer, compliance and regulation manager, researcher, policy researcher/analyst.

#### Bachelor of Health Science/Bachelor of Science 4 yrs FT/8 yrs PT H

Explore Australian and international health challenges. Examine the physical, psychological and social aspects of health in a variety of settings. Gain skills, knowledge and key theoretical insights required to work in a range of professional scientific environments.

Professional accreditation: See Bachelor of Health Science (page 83).

Career opportunities: Medical researcher, psychologist (with further study), data scientist, biomedical scientist, physical therapist, food scientist, biologist, industrial chemist, food technologist, environmental scientist.

Diploma of Science (UniLink)	8 mths FT	Н	V or D
	16 mths PT		

This higher education diploma provides an alternative pathway to the second year of a bachelor degree. The units are similar to those offered in the first year of a bachelor degree, but classes are smaller and students have more one-on-one time with teachers.

Prerequisites: Units 3 and 4: a minimum study score of 20 in English (or equivalent) or 25 in English (EAL); and Units 3 and 4: a minimum study score of 20 in any Mathematics.

Prerequisites: Units 3 and 4:

(or equivalent) or 30 in English (EAL);

and Units 3 and 4: a minimum study

score of 20 in any Mathematics.

Prerequisites: Units 3 and 4:

score of 20 in any Mathematics.

a minimum study score of 25 in English

(or equivalent) or 30 in English (EAL); and Units 3 and 4: a minimum study

### Certificate IV in Science (22442VIC) 1 yr FT/2 yrs PT H

Gain skills in mathematics, science, research and communication. These skills can help students to undertake further study, fulfil career aspirations or improve employment opportunities.

Career opportunities: Laboratory assistant.

Prerequisites: Entry into this program is based on an applicant's study and/or relevant work history. Some additional criteria may also apply.

Duration	Location	W Wantirna	2	> Entry ATAR	RC Range of criteria		Where to appl
FT Full-time	C Croydon	O Online	^	Guaranteed entry	For more information about ATARs,	V	VTAC
PT Part-time	H Hawthorn	EV External venue	#	Minimum entry	please refer to page 23.		Direct



# **APPRENTICESHIPS**

We've been offering TAFE qualifications for more than 100 years (so, we really know our stuff). Learn and earn your way towards a nationally recognised qualification with apprenticeships in building and construction, electronics, horticulture and more.

Don't want to commit straight away? Our pre-apprenticeships are a great way to sample an industry and get both feet in the door for an apprenticeship.

**BEST HOMES** AND **GARDENS**  Swinburne students won five awards at the 2019 Melbourne International Flower and Garden Show, including two gold medals.

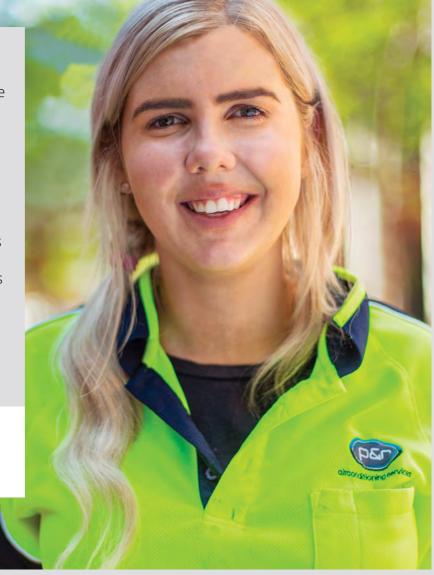
**AWARD WINNERS**  Our students are regularly recognised with prestigious industry awards, including Apprentice of The Year.

## **Trading stereotypes**

Aimee probably isn't what you picture when you think 'tradie'. But the Certificate II in Plumbing graduate is one of a growing number of female tradies changing an outdated perception. Having always enjoyed working with her hands, the former beauty therapy student discovered her passion during a day on the tools with her dad. "Having a trade under your belt opens so many doors," says Aimee. Since graduating, she's become a TAFE Victoria ambassador and even co-founded Tiny Stays, idyllic off-grid accommodation in the heart of the Yarra Valley.

## **AIMEE**

**CERTIFICATE II IN PLUMBING** 



SCIENCE 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY APPRENTICESHIPS

# **APPRENTICESHIPS**

COURSE	<u>(b)</u>	0	Ø
Building and construction			
Advanced Diploma of Building Design (Architectural) (22477VIC)	2 yrs FT	СН	V or D
earn about building theory and practice to design and develop drawings for residential, industrial and ommercial buildings. Develop specialist skills and knowledge in design, problem-solving, construction echnology, building information modelling (BIM), computer-aided drafting, virtual and augmented reality nd project administration.  his course meets the academic requirement for application to the Victorian Building Authority to become drafting practitioner.  Career opportunities: Building designer and planner, drafting technician.	Prerequisites: Satisfar of Victorian Year 12 or or relevant work exper qualified tradespersor building designer.	equivaleni ience, or	t,
Diploma of Building and Construction (Building) (CPC50210)	1.5 yrs FT	Н	V or D
earn about building theory and practice related to managing and supervising the construction of residential, industrial and commercial buildings. Develop skills and knowledge in reading plans, estimating, scheduling, onstruction technology, site supervision, surveying, contracts and business management. (areer opportunities: Builder, building manager, estimator, foreperson, project manager, site manager.	Prerequisites: Satisfar of Victorian Year 12 or or relevant work exper qualified tradespersor building supervisor.	equivaleni ience, or	t,
Certificate IV in Building and Construction (Building) (CPC40110)	5 mths PT	C	D
earn the theory and practice needed to construct building projects. Gain skills and knowledge to read plans, fork safely, estimate, schedule, prepare a tender and supervise construction works.  **Gareer opportunities: Builder, construction manager, trade contractor.	<b>Prerequisites:</b> Relevant industry experience, of apprenticeship in the base of the second se	r undertal	king an
Certificate III in Bricklaying/Blocklaying (CPC30111)	3 yrs PT	С	D
earn how to construct housing and undertake general bricklaying work for residential and ommercial applications.  Sareer opportunities: Bricklayer, blocklayer.	<b>Prerequisites:</b> At least and/or completed Year apprenticed to an emp	10; and	of age
Certificate III in Carpentry (CPC30211)	3 yrs PT	С	
earn about residential and commercial construction, safety, demolition, drawing, frameworks, and and power tools, and small plant and equipment.  [areer opportunities: Carpenter, carpenter and joiner.	Prerequisites: At least and apprenticed to an	-	-
Certificate II in Building and Construction Pre-apprenticeship (22338VIC) - Carpentry	12 wks FT	С	D
earn how to use hand and power tools, learn about small plant and equipment, and gain an nderstanding of building plans and documents.  **areer opportunities: Apprentice carpenter and joiner.	<b>Prerequisites:</b> Satisfactor of Year 10 or equivalent		pletion
Certificate II in Building and Construction Pre-apprenticeship (22338VIC) - Bricklaying	12 wks FT	С	
earn about bricklaying hand tools and selected power tools. Gain the practical skills in brick onstruction processes employers are looking for.  Fareer opportunities: Apprentice bricklayer.  Conservation and land management	<b>Prerequisites:</b> Satisfa of Year 10 or equivalen work experience.	-	
Diploma of Conservation and Land Management (AHC51116)	1.5 yrs FT/2 yrs PT	W	V or D
iain a broad knowledge of environmental science and develop management strategies for the sustainable se of our resources. Learn about surveying fauna and flora, waterway testing and restoration, cultural esource management, ecological fire management, erosion and sediment control, project management and community engagement.  **Career opportunities:** Conservationist, park ranger.	<b>Prerequisites:</b> Satisfar of Victorian Year 12 or relevant work experier	equivalen	
Certificate III in Conservation and Land Management (AHC31416)	1.5 yrs PT	W	
et skills and knowledge relevant to the conservation and land management industry. articipate in industry-focused field-based training to gain skills for outdoor work at trade level. areer opportunities: Conservationist, park ranger.	<b>Prerequisites:</b> Applications or over and have numeracy and literacy	appropri	
Certificate III in Rural Operations (AHC32816)	1.5 yrs PT	W	С
iain training, skills and knowledge relevant to the agriculture, horticulture, conservation and land nanagement industries.  Career opportunities: Local government consultant, site inspector, tour leader, environmental consultant.	Prerequisites: Entry in is based on an applical relevant work history. Scriteria may also apply	nt's study Some add	and/or

© <b>Duration</b>   © <b>Location</b> W Wantirna   ☆ <b>Entry ATAR</b> RC Range of criteri. FT Full-time   C Croydon O Online   ^ Guaranteed entry   For more information please refer to page   Part-time   H Hawthorn EV External venue   # Minimum entry   Please refer to page   Please refer	on about ATARs,	<b>Where to</b> V VTAC D Direct	apply
COURSE	<u>(L)</u>	<b></b>	$\square$
Electrical			
Certificate III in Electronics and Communications (UEE30911)	4 yrs PT	Н	D
Gain a broad background in electronics, with an emphasis on digital technology, gate array technologies and the application of microcontrollers, communications and analogue electronics. Learn how to commission, test, evaluate and diagnose faults in electronic systems and associated apparatus.  Career opportunities: Electrician, tradesperson, telecommunications technician.	<b>Prerequisites:</b> Sat of Year 11 or equive		etion
Certificate III in Electrotechnology Electrician (UEE30811)	4 yrs PT	W	D
Designed for people who are employed as electrical apprentices. Complete practical and theory units to develop the necessary skills and knowledge to work at trade level in the electrical industry.  Career opportunities: Electrician, tradesperson, telecommunications technician.	<b>Prerequisites:</b> At least and apprenticed to		age
Certificate II in Electrotechnology (Career Start) (UEE22011)	10 wks FT	W	D
Gain knowledge and employability skills relevant to the electrical trade. Students who successfully complete the course will gain credit towards the four-year TAFE component of the Certificate III in Electrotechnology Electrician course undertaken by apprentice electricians.  Career opportunities: Apprentice electrician, trainee telecommunications technician.  Engineering	Prerequisites: Nor	ne.	
Certificate IV in Engineering (MEM40119)	3 yrs PT	W	D
Develop skills to advance to positions of responsibility in manufacturing industries. Select one specialisation from: fabrication, CNC machining, or maintenance and fluid power.  Career opportunities: Advanced mechanical maintenance technician, advanced toolmaker, fluid power systems technician, advanced welder.	Prerequisites: There are no entry requirements for this qualification.		
Certificate III in Engineering – Fabrication Trade (MEM30319)	3 yrs PT	W	D
Gain skills in engineering drawing, fabrication, hand and power tools, sheet metal and welding.  Career opportunities: Mechanic, tool and die maker, toolmaker, boilermaker, welder.	Prerequisites: At leand apprenticed to	east 15 years of	
Certificate III in Engineering - Mechanical Trade (MEM30219)	3 yrs PT	W	D
Learn about engineering drawing, hand and power tools and measuring equipment, operating computer- controlled machines, performing general machining, performing routine sharpening of tools and welding.  Career opportunities: Maintenance fitter, toolmaker, tool and die maker, first class machinist.	<b>Prerequisites:</b> At least and apprenticed to		age
Horticulture and landscape			
Diploma of Horticulture (AHC50416)	2 yrs FT/4 yrs PT	W	V or D
Learn about plant nutrition, plant health, propagation and recognition of plants, landscape design, products and services, and business management and administration.  Career opportunities: Nursery manager, landscape designer, parks and gardens manager, horticultural consultant, landscaper, garden centre operator.	<b>Prerequisites:</b> Sat of Victorian Year 12 or relevant work ex	or equivalent,	etion
Diploma of Landscape Design (AHC50616)	1.5 yrs FT/3 yrs PT	W	V or D
Combine visual and creative skills with practical and technical aspects of landscape, permaculture, business and planting design. This course is for those who seek a career as a landscape designer or those who are involved in a horticulture or landscape business and wish to upgrade their professional skills and knowledge. Career opportunities: Landscape designer.	<b>Prerequisites:</b> Sat of Victorian Year 12 or relevant work ex	or equivalent,	etion
Certificate III in Horticulture (AHC30716)	1 yr FT/2 yrs PT	W	D
Gain skills and knowledge to meet the needs of various sectors in the horticulture industry. Choose from streams in nursery, parks and gardens, or landscape construction. Available as a traineeship.  Career opportunities: Gardener, grounds keeper, garden maintenance worker.	Prerequisites: App 15 years or over.	olicants must be	
Certificate III in Landscape Construction (AHC30916)	4 yrs PT	W	D
Learn about concrete/brick/block/stone structures and features, drainage systems, paving and retaining wall projects, plants and their culture, and soil profiles.  Career opportunities: Landscape gardener.	Prerequisites: Sati of Victorian Year 10 may/may not have s part-time employm construction appre	or equivalent, a secured full-time ent as a landsca	and e or

120 APPRENTICESHIPS SWINBURNE UNIVERSITY OF TECHNOLOGY 121

## **APPRENTICESHIPS**

## (L) COURSE

## Horticulture and landscape (continued)

Certificate III in Parks and Gardens (AHC31016) Gain skills in advising on plants and plant products, machinery and equipment, propagation, recognising plants, and soil and plant nutrition.

Career opportunities: Production nursery tradesperson, horticulturist, parks and gardens consultant.

### Certificate III in Production Nursery (AHC31116)

Gain skills in advising on plants and plant products, machinery and equipment, propagation, recognising plants, and soil and plant nutrition.

Career opportunities: Production nursery tradesperson, wholesale nursery worker.

## Certificate III in Retail Nursery (AHC31216)

Learn how to operate successfully in the horticulture industry. Gain theory and practical training based around a real nursery environment

Career opportunities: Nursery sales assistant, garden centre sales assistant.

### 3 yrs PT

Prerequisites: At least 15 years of age and have appropriate numeracy and literacy skills and may/may not have secured full-time or part-time employment as a parks and gardens apprentice.

Prerequisites: At least 15 years of age and have appropriate numeracy and literacy skills and may/may not have secured full-time or part-time employment as a production nursery apprentice.

Prerequisites: Entry into this program is based on an applicant's study and/or relevant work history. Some additional criteria may also apply.

## **Plumbing**

#### Certificate IV in Plumbing and Services (CPC40912) 2 yrs PT

Become equipped with the skills and knowledge to sit the Plumbing Industry Commission's Licence-level exams. Prerequisites: Applicants must have Career opportunities: Air conditioning technician, fire services supervisor, plumbing contractor, specialist hydraulic designer.

successfully completed one of the following corresponding streams from the Certificate III in Plumbing: Gas; Drainage; Sanitary; Roof; Water; Mechanical. Applicants must be either currently enrolled in or have completed the Certificate III in Plumbing Apprenticeship and/or hold a Victorian Building Authority (VBA) Plumbing registration

## Certificate III in Plumbing (CPC32413)

Learn about gas installation, hand and power tools, roofing water supply, sanitation and drainage, and scaffolding.

Career opportunities: Plumber, plumber and drainer, plumber and gasfitter, roof plumber.

## Certificate II in Plumbing (Pre-apprenticeship) (22569VIC)

O Location

C Croydon

Learn about building structures; plumbing fixtures, fittings and appliances; tubes and pipes in plumbing; and workplace safety and environmental procedures. Available as a pre-apprenticeship.

Career opportunities: Apprentice plumber.

(L) Duration

FT Full-time

PT Part-time

## 4 yrs PT

Prerequisites: At least 15 years of age and apprenticed to an employer or a referral from the Plumbing Industry Commission of Victoria

## 10 wks FT

Prerequisites: Entry into this program is based on an applicant's study and/or

relevant work history. Some additional criteria may also apply.

#### W Wantirna ☆ Entry ATAR RC Range of criteria **⋈** Where to apply O Online Guaranteed entry For more information about ATARs, V VTAC H Hawthorn EV External venue please refer to page 23. D Direct # Minimum entry

# **FOUNDATION SKILLS FOR WORK AND STUDY**

## Gain lifelong skills for work and study.

Swinburne offers programs for students who have had gaps in their educatoin or are from a non-English speaking background.

Courses are available in a range of areas and at a variety of levels. They will improve your confidence and help you prepare for further education. They can also improve your employment opportunities.

Swinburne foundation skills courses can help you with:

- · reading and writing English
- speaking and listening skills
- maths skills
- career planning
- foundation computer skills
- · progressing to higher levels of study.

teaches numeracy, literacy, personal development and work-related skills.



**APPRENTICESHIPS** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY FOUNDATION SKILLS 123

# **FOUNDATION SKILLS FOR WORK AND STUDY**

COURSE	<b>(</b>	0	$\square$
Bridging courses			
Marketing and Communication Foundations Skill Set (BSBSS00077)	6 wks FT	Н	D
Gain a sound basis of marketing and communication, presentation and debate. Learn how to effectively articulate ideas, apply digital solutions to work processes and develop skills to work in the marketing and communication industry.	<b>Prerequisites:</b> Applicate at a range of skill levels to speak English.		
MathsLink: Further	6 wks FT	H&O	D
Further Mathematics is a prerequisite for many degrees in aviation, education, health science, information technology and science. This bridging program is designed to help students who have not studied Units 3 and 4 Further Mathematics to meet the prerequisites for entry into their chosen course.	<b>Prerequisites:</b> Success of any mathematics Ur		
MathsLink: Methods	6 wks FT	H&O	D
Mathematical Methods is a prerequisite for many degrees in aviation and engineering. This bridging program is designed to help students who have not studied Units 3 and 4 Mathematical Methods to meet the prerequisites for entry into their chosen course.	<b>Prerequisites:</b> Success of Units 1 and 2 Mathe or Unit 3 and 4 Further	ematical Meth	nods
English as a second language			
Certificate IV in EAL (Further Study) (22492VIC)	1 yr FT/2 yrs PT	Н	D
Develop upper-intermediate to advanced levels of English in listening, speaking, reading and writing. Undertake electives related to the Australian workplace or further study.	<b>Prerequisites:</b> English language spoken.	is not the fir	st
Certificate III in EAL (Access) (22486VIC)	1 yr FT/2 yrs PT	CHW	D
Develop intermediate to upper-intermediate levels of English in listening, speaking, reading and writing. Undertake electives related to the Australian workplace or further study.	<b>Prerequisites:</b> English language spoken.	is not the fir	st
Certificate II in EAL (Access) (22485VIC)	1 yr FT/2 yrs PT	CHW	D
Develop English language speaking, listening, reading and writing skills for social situations and daily interactions.	<b>Prerequisites:</b> English language spoken.	is not the fir	st
Certificate I in EAL (Access) (22484VIC)	1 yr FT/2 yrs PT	CHW	D
Develop English language speaking, listening, reading and writing skills directly related to immediate personal and social needs.	Prerequisites: English language spoken.	is not the fir	st
Course in EAL (22483VIC)	1 yr FT/2 yrs PT	CHW	D
This is a foundation course for learners who have little or no formal schooling, English literacy skills or numeracy skills. It is also suitable for learners who do not have literacy skills in their first language.	<b>Prerequisites:</b> English language spoken.	is not the fir	st
Course in Initial EAL (22482VIC)	1 yr FT/2 yrs PT	CW	D
Begin developing english language, literacy and numeracy skills. Develop learning routines and basic handwriting skills, including the alphabet and numbers. Participate in familiar spoken exchanges.	<b>Prerequisites:</b> English language spoken.	is not the fir	st
General education for adults			
Certificate I in General Education for Adults (Introductory) (22476VIC)	6 mths FT/1 yr PT	CW	D
Certificate I in General Education for Adults (22472VIC)	6 mths FT/1 yr PT	CW	D
Certificate II in General Education for Adults (22473VIC)	6 mths FT/1 yr PT	CHW	D
Certificate III in General Education for Adults (22474VIC)	6 mths FT/1 yr PT	CHW	D
Improve skills in reading, writing, mathematics, oral communication and computer use. There is also a strong emphasis on improving self-confidence, developing further training and vocational pathways, and preparing for employment.	<b>Prerequisites:</b> Applicants may enter at a range of skill levels, but must be able to speak some English.		
Certificate I in Transition Education (22301VIC)	1 yr FT/2 yrs PT	С	D
Teaches those with mild intellectual disabilities the skills they need to find their feet in the community after leaving school.	Prerequisites: Applica a diagnosed mild intell		

© Duration
FT Full-time
PT Part-time
PT Par

COURSE © 1

## **VCAL**

Victorian Certificate of Applied Learning - Senior (VCALSEN001)	1 yr FT	CW	D
The VCAL program is a senior-school certificate based on vocationally oriented applied-learning principles. The course may allow students to study other vocational certificates while studying the core VCAL certificate.	Prerequisites: Applicants should be 16 to 19 years of age and have completed Year 11 or equivalent, and should have left or be leaving school.		
Victorian Certificate of Applied Learning - Intermediate (VCALINT001)	1 yr FT	CW	D
The VCAL program is a senior-school certificate based on vocationally oriented applied-learning principles. The course may allow students to study other vocational certificates while studying the core VCAL certificate.			

## **VCE Connect**

orian Certificate of Education (VCE Connect) (VCE0000001)	2 yrs F1	CVV	D
Connect offers secondary school qualifications for students seeking an alternative VCF experience. It is	Proroquisitos: Applica	ants should h	21/0

VCE Connect offers secondary school qualifications for students seeking an alternative VCE experience. It is ideal for those with aspirations in trades, engineering, nursing, health science, horticulture and technology.

**Prerequisites:** Applicants should have successfully completed Year 10, including at least one Mathematics and one Science subject.



124 **FOUNDATION SKILLS** 2022 UNDERGRADUATE COURSE GUIDE SWINBURNE UNIVERSITY OF TECHNOLOGY

# **COURSE INDEX**

Accounting	44	Educational studies	63	Neuroscience	84
Accounting and finance	45	Electrical	121	Non-Emergency Patient Transport	84, 106
Accounting and financial plannir	ng <b>45</b>	Electrical and electronic	66	Nursing	108
Advertising	28, 103	Engineering 66,67	7, 68, 69, 121	Nutrition	84
Animation	73, 77	English as a second language	120	Paramedical science	85, 106
Applied mathematics	116	Entrepreneurship and innova	ation 49	Philosophy	32
Architectural engineering	39, 66	Environmental science	116	Photography	57
Architecture and building design	3 <b>7, 54</b>	Environmental sustainability	30	Physics	117
Arts	28, 29	Event management	49	Plumbing	122
Aviation management	36, 45	Exercise science	83	Politics and international relations	s <b>33</b>
Biochemistry	116	Film and screen production	73	Primary teaching	62
Biomedical	82	Finance	49	Product design engineering	57, 69
Biomedical engineering	66	Financial planning	50	Professional piloting	36
Biotechnology	116	Games and interactivity	31, 78, 104	Professional writing and editing	33, 106
Branded environments	54	Games development	78, 92	Psychological sciences	112
Bridging courses	120	General education for adults	120	Psychology and forensic science	85,112
Building and construction	120	Global studies	31	Psychology and psychophysiology	86
Business	46, 47	Graphic design	56	Public relations	106
Business administration	47	Health promotion	83	Robotics and mechatronics	69
Business analysis	47, 90	Health science	84	Science	114, 115
Business foundational	47	History	31	Screen and media	74
Business information systems	48,49,90	Horticulture and landscape	41, 121	Social media	33, 106
Business systems	90	Human resource managemer	nt <b>50</b>	Social media marketing	51
Chemistry	116	Indigenous studies	31	Sociology	33
Cinema and screen studies	29, 101	Industrial design	56	Software	94
Civil engineering	40, 66	Industry leaders	34	Software engineering	69
Clinical technologies	82	Information technology 9	2, 93, 94, 95	Sports management	51, 86
Communication design	54	Interior architecture and desi	ign <b>39, 57</b>	Sports media	74, 106
Community services	82	Interior design	57	Systems	95
Computer science	90, 91	Internet of Things	91	UX interaction design	58
Conservation and land	41, 120	Journalism	31, 104	VCAL	125
management		Justice and legal services	98	VCE connect	125
Creative product development	56	Laboratory technology	117	Visual arts	58
Creative writing and literature	29, 101	Law profession	96, 97	Visual merchandising	58
	29, 30, 98	Library and information servi	ices <b>32, 51</b>	Website design and development	79, 95
Cybersecurity	91	Logistics and supply chain	51		
Data analytics	49, 91	management			
Data science	92	Management	51		
Design	55	Marketing	52		
Digital advertising technology	30, 103	Mechanical	68		
Digital and interactive games	77	Media and communication	104, 105		
Disability	83	Media industries	32, 105		
Early childhood and primary tea	_	Media studies	105		
Early childhood education and c		Motion design	57, 79		
Early childhood teaching	62	Networks	93		



126 **COURSE INDEX** 2022 UNDERGRADUATE COURSE GUIDE

## **CAMPUSES**

**Hawthorn campus** 

John Street, Hawthorn

**Croydon campus** 

12-50 Norton Road, Croydon

Wantirna campus

369 Stud Road, Wantirna

Sarawak campus

Kuching, Sarawak, Malaysia

## **FURTHER INFORMATION**



**J** 1300 275 794



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